







INDEX OF PATENTS

RELATING TO

ELECTRICITY,

EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1887, TO JUNE 30, 1888.

APPENDIX No. VII.

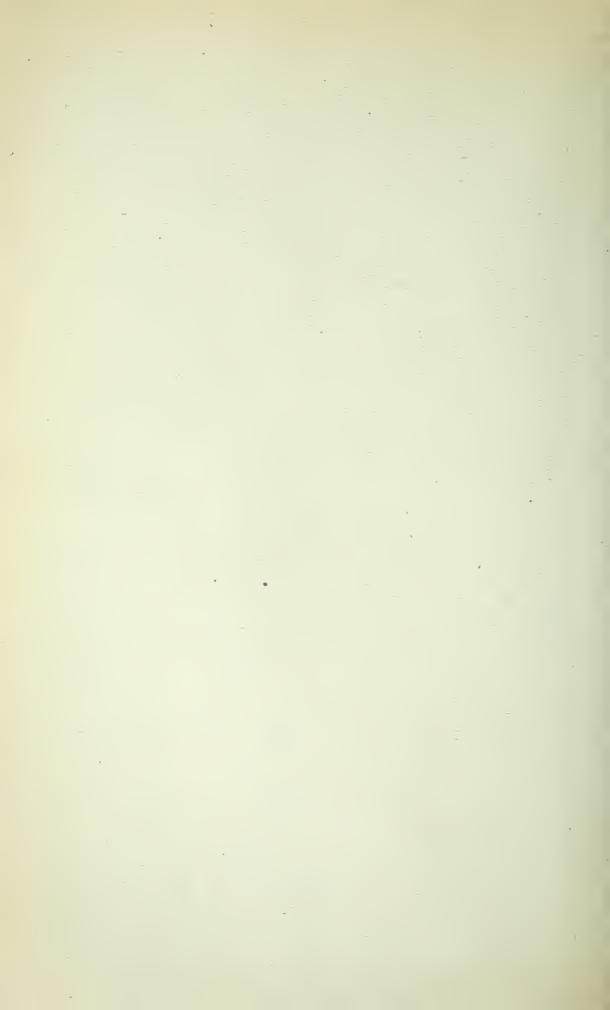
COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1889.







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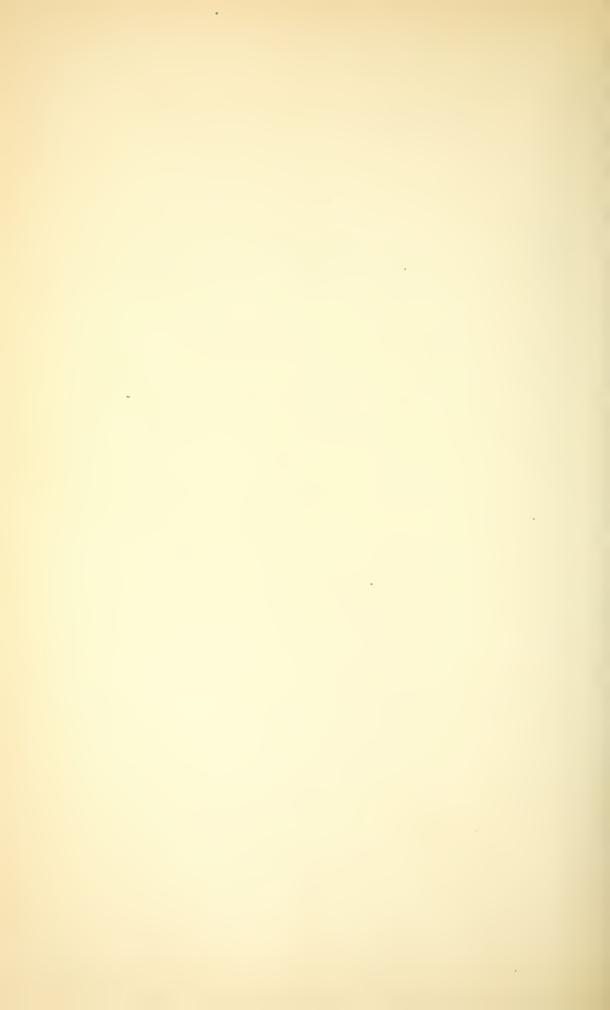
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ERRATA.

No. 10,907 (Reis. 333,121): For "Eisenhardt," read Eisenhart.

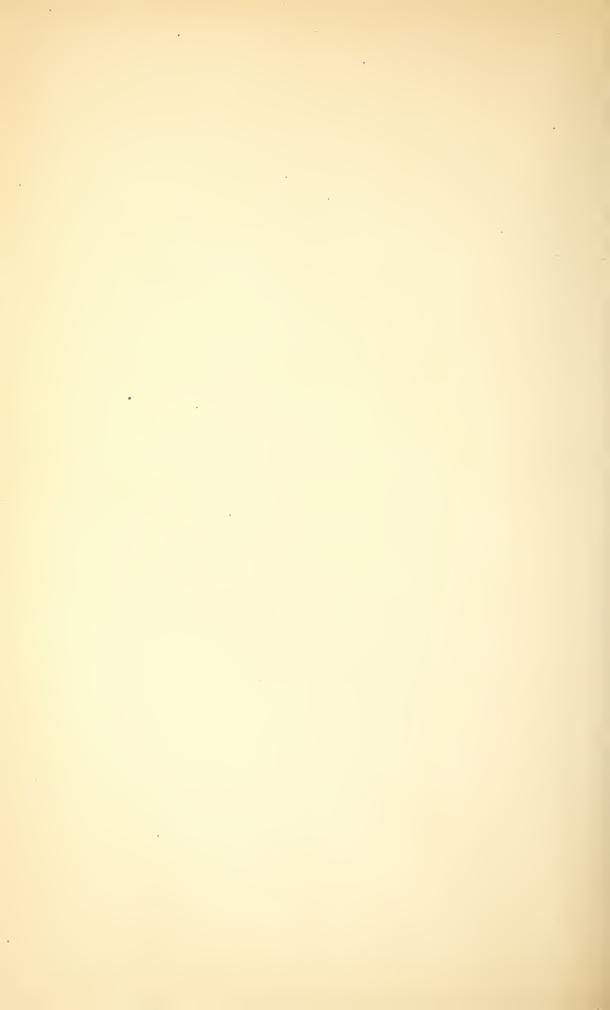
No. 370,572: For "B," read W.

No. 372,231: For "Motors," read Regulators.

No. 379,396: For "Hagan," read Hogan.

No. 383,919: For "Motive power," read Magneto-electric.

No. 384,562: For "J," read G.



APPENDIX No. VII.

PART I.

CONSISTING OF A

SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1887, to June 30, 1888, inclusive, giving names of Inventors, and dates and numbers of Patents in each sub-class in numerical and chronological order.



CLASSIFIED INDEX

0F

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1887, TO JUNE 30, 1888.

171. GENERATION.-6. BATTERIES-GALVANIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
366,034	Seiler, C	July 5, 1887	377,745	Foote, T. M	Feb. 14, 1888
366,717	Faure, C. A.	July 19, 1887	378,121	Walter, H	Feb. 21, 1888
367,294	Harris, H. I	July 26, 1887	378,122	Walter, H. and Marsh, W. E. H.	Feb. 21, 1888
367,359	Brewer, H. J	Aug. 2, 1887	378,484	Wiest, J.	Feb. 28, 1888
367,451 367,705	Serson, J	Aug. 2, 1887 Aug. 2, 1887	378,943	Terrell, G. E	Mar. 6, 1888
367,705	D'Humy, P. R. de F	Aug. 2, 1887	379,180 379,372	Partz, A. F. W.	Mar. 6, 1888
368,099	Brewer, H. J	Aug. 9, 1887 Aug. 9, 1887	379,551	Crouch, F. J Woodward, II	Mar. 13, 1888 Mar. 13, 1888
368,190	Case, W. E	Aug. 16, 1887	379,552	Woodward, II	Mar. 13, 1888
368,191	Case, W. E	Aug. 16, 1887	379,911	Sehanschieff, A	Mar. 20, 1888
368,806	Bryant, T. W	Aug. 23, 1887	380,084	Brewer, H. J	Mar. 27, 1888
369,034	Seely, J. A	Aug. 30, 1887	380,085	Brewer, H. J.	Mar. 27, 1888
369,505	Dreseher, L	Sept. 6, 1887	380,480	Frishmuth, W	Apr. 3, 1888
369,769	Brewer, H. J	Sept. 13, 1887	380,589	O'Keenan, C. E	Apr. 3, 1888
371,244	Bailey, M. and Warner, J	Oct. 11, 1887	380,855	Brewer, H. J	Apr. 10, 1888
372,193	Armstrong, J. T.		380,856	Brewer, H. J	Apr. 10, 1888
372,658 372,734	Cox, H. B	Nov. 8, 1887 Nov. 8, 1887	380,942 $380,943$	Shallenberger, O. B.	Apr. 10, 1888 Apr. 10, 1888
373,021	Howell, J. W		380,944	Shallenberger, O. BShallenberger, O. B	Apr. 10, 1888
373,064	Gassner, C., jr	Nov. 15, 1887	380,947	Shallenberger, O. B. and Bylles-	Apr. 10, 1888
373,334	Brown, C. A	Nov. 15, 1887	500,811	by, II. M.	11/31. 10, 1000
373,435	Brewer, H. J		380,971	Armstrong, J. T	Apr. 10, 1888
374,173	Case, W. E		381,336	Claffin, C. R. B., jr., and Flagg,	Apr. 17, 1888
374,329	Waite, H. E	Dec. 6, 1887		J. W.	*
374,456	Crouch, F. J.	Dec. 6, 1887	381,422	Riker, A. L	Apr. 17, 1888
374,631	Serson, J		381,542	Egan, C. E	Apr. 24, 1888
374,669	Freeman, C. R	Dec. 13, 1887	382,738	Sloane, G. H.	May 15, 1888
374,862	Barrett, J. A		383,263	Whittier, T. P	May 22, 1888
374,863 375,007	Barrett, J. A.		383,271 383,548	Beattie, J., jr	May 22, 1888 May 29, 1888
375,034	Wilder, C. H		383,677	Metzradt, H. J. von	May 29, 1888
375,441	Cox, H. B		383,706	Cox, H. B	May 29, 1888
375,559	McLaughlin, J. F	Dec. 27, 1887	384,958	Brown, C. A. and Clark, M. M	June 26, 1888
375,561	McLaughlin, J. F	Dec. 27, 1887	385,028	Wheelock, B. J	June 26, 1888
376,228	Beattie, J., jr		385,147	Starr, E. É	June 26, 1888
377,210	Pennock, G. B	Jan. 31, 1888	385,308	Hewett, E. M	June 26, 1888
377,340	Urquhart, D. and Nicholson, B-	Jan. 31, 1888			
	171. GEN	ERATION.—72	. Batter	HES—SECONDARY,	
368,608	Pevrusson, A. E.	Aug. 23, 1887	382,098	Madden, A. F	May 1, 1888
369,561	Short, S. H		382,112	Sellon, J. S	May 1, 1888
370,134	Flick, O. C		382,358	Gibson, C. D. P	May 8, 1888
371,358	Reckenzaun, A		382,420	Epstein, L	May 8, 1888
372,468 377,642	Hering, C	Nov. 1, 1887	382,968	Gibson, C. D. P	May 15, 1888
	Sellon, J. S.		383,140	Russell, S	May 22, 1888
378,629	Stecher, M.		383,193	Sellon, J. S	May 22, 1888
379,567	Faure, C. A		383,216	Epstein, L	May 22, 1888
379,572	Gibson, C. D. P	Mar. 20, 1888	383,560	Faure, C. A.	May 29, 1888
380,554 380,765	De Benardos, NPendleton, J. M	Apr. 5, 1888	383,562 383,575	Faure, C. A.	May 29, 1888
380,922	Packer, R	Apr. 10, 1000	383,757	Morris, H. G. and Salom, P. G.	May 29, 1888
380,925	Phelps. G. M		385,200	Reckenzaun, A.	June 26, 1888
380,989	Carpenter, H. H.	Apr. 10, 1888	385,254	Doyle, J.	
381,941	Meserole, A. V	May 1, 1888	,	,	, -

171. GENERATION.--74. Batteries-Secondary-Applications.

No. Name.	DATE.	No.	Name.	DATE.
367,630 Hochhausen, W	Oet. 18, 1887 Nov. 29, 1887 Dec. 13, 1887 Jan. 10, 1888 Feb. 21, 1888 Feb. 28, 1888 Mar. 20, 1888	382,599 383,502 383,620 383,621 383,622 383,623 383,640 384,289 384,447	Faure, C. A Timmis, I. A. and Currie, S. C. C Byllesby, H. M Byllesby, H. M Byllesby, H. M Byllesby, H. M Gibson, C. D. P Sellon, J. S Julien, E	May 29, 1888 May 29, 1888 May 29, 1888 May 29, 1888 June 12, 1888
171. GEN	ERATION78	3. Batter	IES—THERMAL.	
369,219 Woolley, L. G	Aug. 30, 1887 Dec. 20, 1887	375,243 383,464	Acheson, E. G	Dec. 20, 1887 May 29, 1888
171. GEN	ERATION.—28	3. Frictio	n Generators,	
368,088 Hinds, C. H 383,098 Cnlp, J. D	Aug. 9, 1872 May 22, 1888	383,105	Culp, J. D	May 22, 1888
171. GE	ENERATION.	-95. * Gai	VANOMETERS.	
366,305 Cox, II. B	July 12, 1887 July 12, 1887 July 19, 1887 Oct. 18, 1887 Oct. 25, 1887 Nov. 8, 1887 Nov. 8, 1887 Feb. 14, 1888 Apr. 24, 1888 Apr. 24, 1888	383,095 383,444 383,649 383,665 383,666 383,667 383,669 383,670 383,671 383,672	Bristol, W. H. and Geyer, W. E-Crompton, R. E. B. and Kapp, G Lange, P. Shallenberger, O. B.	May 29, 1888 May 29, 1888
171. G	ENERATION	-27. Indu	ction-Coils.	
366,347 Schmid, A 366,362 Westinghouse, G., jr 366,544 Westinghouse, G., jr 371,524 Smith, E 373,029 Shallenberger, O. B Westinghouse, G., jr., Byllesby, II. M., Shallenberger, O. B., and Schmid, A.	July 12, 1887 July 12, 1887 July 12, 1887 Oet. 11, 1887 Oet. 18, 1887 Nov. 8, 1887	376,018 377,872 378,320 378,321 380,138 382,282 10,907	Whitney, E. R.——————————————————————————————————	Feb. 14, 1888 Feb. 21, 1888 Feb. 21, 1888 Mar. 27, 1888 May 1, 1888
171. GE	NERATION.—	33. Magx	eto-Electric.	
372,945 Stanley, W., jr 373,034 Walter, H. E 373,145 Main, W 373,146 Main,	Aug. 2, 1887 Aug. 9, 1887 Aug. 9, 1887 Sept. 6, 1887 Oct. 4, 1887 Nov. 1, 1887 Nov. 8, 1887 Nov. 8, 1887 Nov. 8, 1887 Nov. 8, 1887 Nov. 8, 1887 Nov. 15, 1887 Nov. 15, 1887	373,948 373,971 374,621 374,711 374,728 374,778 374,858 374,959 375,408 375,542 375,750 376,326 377,046	Scribner, C. E. Easton, J. W. Patten, F. J. Slater, H. B. Bliss, E. N. Congdon, A. F. Westinghouse, G., jr., Byllesby, H. M., Shallenberger, O. B., Schmid, A., and Hartley, B. Gray, J. Acheson, E. G. Eickemeyer, R. Humans, W. Jehl, F. Lemp, H. O'Beirne, E. J.	Nov. 29, 1887 Nov. 29, 1887 Dec. 13, 1887 Dec. 13, 1887 Dec. 13, 1887 Dec. 13, 1887 Dec. 13, 1887 Dec. 20, 1887 Dec. 27, 1887 Dec. 27, 1887 Jan. 3, 1888 Jan. 10, 1888 Jan. 10, 1888 Jan. 31, 1888
372,822 Sprague, 372,934 Shallenbe 372,935 Shallenbe 372,945 Stanley, V 373,034 Walter, F 373,145 Main, W 373,146 Main, W 373,584 Edison, T	F. J erger, O. B vrger, O. B V., jr	F. J Nov. 8, 1887 Nov. 15, 1887 Nov. 15, 1887 Nov. 15, 1887 Nov. 22, 1887	F. J Nov. 8, 1887 Nov. 8, 1887 Nov. 8, 1887 Nov. 8, 1887 374,959 Nov. 8, 1887 375,408 Nov. 8, 1887 375,542 Nov. 8, 1887 376,542 Nov. 15, 1887 376,307 Nov. 15, 1887 376,326	F. J

^{*} Galvanometers transferred from Special Applications to Generation.

171. GENERATION.—33. MAGNETO-ELECTRIC—Continued.

171. GENERATION.—33. MAGNETO-ELECTRIC—Continued.					
No.	NAME.	Date.	No.	Name.	Date.
377,683	Mather, R. H	Feb. 7, 1888	382,335	Thomson, E	May 8, 1888
377,996	Eickemeyer, R		382,845	Tesla, N	May 15, 1888
378,375	Reebniewski, W. C		383,113	Easton, J. W	May 22, 1888
378.456	Moses, O. A	Feb. 28, 1888	383,114	Easton, J. W	May 22, 1888
378,892	Loomis, O. P		383,320	Poland, L. N. P	May 22, 1888
379,037 379,284	Urban, O. and Wightman, M. J. Rice, L. C.		383,565 383,567	Fisher, F. E	May 29, 1888 May 29, 1888
379,234	Deprez, M.		383,617	Byllesby, H. M	May 29, 1888
379,944	Edison, T. A.		383,619	Byllesby, H. M	May 29, 1888
380,020	Card, G. F	Mar. 27, 1888	383,648	Lange, P	May 29, 1888
380,115	Heisler, C		383,657	Schmid, A.	May 29, 1888
380,144	Sprague, F. J	Mar. 27, 1888	383,658	Schmid, A.	May 29, 1888
380,620 380,702	Crowdus, W. A. and Sutton, H. M. Slater, H. P.	Apr. 5, 1888	383,659 383,662	Schmid, A. and Byllesby, H.M. Shallenberger, O. B.	May 29, 1888 May 29, 1888
381,394	Loomis, O. P		383,663	Shallenberger, O. B	May 29, 1888
381.421	Ries, E. E	Apr. 17, 1888	383,664	Shallenberger, O. B.	May 29, 1888
381,451	Wenström, J	Apr. 17, 1888	383,679	Westinghouse, G., jr	May 29, 1888
381,568	Mather, R. H		383,832	Stanley, W., jr	May 29, 1888
381.636	Müller, M. A		384,077	Riker, A. L.	
381,700 381,789	Kelly, J. F.	Apr. 24, 1888	384,638 384,816	Oliver, R	
382.174	Mackie, R	May 1, 1888	385,068	Reckenzaun, A.	
	1100110, 111111111111111111111111111111	2, 2000		210011011101111111111111111111111111111	0 1110 20, 1000
-	171. GENERATI	ON.—76. Magn	ETO-ELEC	TRIC—HAND-MACHINES.	
375,751	Humans, W	Jan. 3, 1888	383,016	Scribner, C. E	May 15, 1888
		,	,		•
	17	1. GENERATI	0.77 9.1	Magazini	
		- GENERALI	U.V.—54.	MELLIES.	
365,792	Cauderay, J	Inly 5 1887	374,861	Avon, II	Dec 13 1887
366,202	Cauderay, J	July 12, 1887	375,342	Stern, W. A	
366,268	Stanley, W., jr	July 12, 1887	381,441	Thomson, E	
370.123	Edison, T. A	Sept. 20, 1887	381,442	Thomson, E	
371,559	Dyer, R. N	Oct. 18, 1887	381,443	Thomson, E	Apr. 17, 1888
372,358	Cauderay, J	Nov. 1, 1887 Nov. 20 1887	381,480	Mott, S. D	
373,975 374,860	Avon, II		383,678 383,680	Westinghouse, G., jr	
			,		
	171.	GENERATION	V.—40. RE	EGULATORS.	
366,267	Stanley, W., jr	July 12 1887	374,872	Hochhausen, W	Dec. 13, 1887
366,349	Shallenberger, O. B.	July 12, 1887	375,910	Zipernowsky, K. and Deri, M.	
367,470	Thomson, E		376,120	Thomson, E	
369,655	Place, E	Sept. 6, 1887	377,684	Mather, R. H	Feb. 7, 1888
369,754	Thomson, E	Sept. 13, 1887	377,884	Crowdus, W. A. and Sutton, H. M	Feb. 14, 1888
370,573	Thomson, E	Sept. 27, 1887	378,547	Hill, W. S.	Feb. 28, 1888
370,575 371,536	Van Rysselberghe, F		379,771 $379,956$	Edison, T. A Heisler, C	Mar. 20, 1888 Mar. 27, 1888
372,201	Brown, C. E. L		381,254	Knowles, E. R	Apr. 17, 1888
372,231	Meston, A. W	Oct. 25, 1887	381,398	Mather, R. H	
372,860	Montanus, G	Nov. 8, 1887	382,336	Thomson, E	May 8, 1888
373,369	Jenney, C. D.	Nov. 15, 1887	383,618	Byllesby, H. M	May 29, 1888
373,739	Higham, D. Sellon, R. P. and Mordey, W. M.	Nov. 22, 1887	383,651	Mather, R. H	May 29, 1888
373,859 374,406	Higham, D.	Dec. 6 1887	383,857 384,117	Brush, C. F Baxter, W., jr	June 5, 1888 June 5, 1888
3, 1, 100	anguay, D	200, 1007	1	Z	June 0, 1000
	171. GENE	ERATION.—97.	Systems	of Distribution.	
365,978	Edison, T. A	July 5, 1887	370,434	Wessel, F. A.	Sept. 27, 1887
366,376	Byllesby, H. M. and Shallen-	July 12, 1887	372,330	Rice, E. W., jr	Nov. 1, 1887
900 -00	berger, O. B.	T.1 10 100=	372,501	Thomson, E	
366,523 367,469	Stanley, W., jr		372,797	Howell, J. W	
369,280	Thomson, E Edison, T. A		372,798 372,799	Howell, J. W	
369,439	Edison, T. A		372,936	Shallenberger, O. B	Nov. 8, 1887
369,441	Edison, T. A.	Sept. 6, 1887	372,943	Stanley, W., ir	Nov. 8, 1887
369,442	Edison, T. A.	Sept. 6, 1887	372,944	Stanley, W., ir	Nov. 8, 1887
369,443	Edison, T. A	Sept. 6, 1887	373,009	Byllesby, H. M	Nov. 8, 1887

171. GENERATION.—97. Systems of Distribution—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
373,035 373,036 373,037 374,381 377,488 377,994 378,432 378,737 378,738 379,073 380,101 380,102 380,845	Westinghouse, G., jr— Westinghouse, G., jr— Westinghouse, G., jr— Waddell, M— Howell, J. W— Dickerson, E. N., jr— Couant, T. P. and Latshaw, Z— Spencer, T— Spencer, T— Jehl, F— Edisou, T. A Edison, T. A Belfield, R—	Nov. 8, 1887 Nov. 8, 1887 Dee. 6, 1887 Feb. 7, 1888 Feb. 14, 1888 Feb. 28, 1888 Feb. 28, 1888 Feb. 28, 1888 Mar. 6, 1888 Mar. 27, 1888 Mar. 27, 1888	380,846 380,946 .381,054 .381,794 381,970 382,415 383,520 383,661 385,020 385,173	Belfield, R	May 1, 1888 May 8, 1888 May 29, 1888 May 29, 1888 June 26, 1888
	172. A	IOTIVE POWI	ER.—9. C.	ar Brakes.	
367,627 367,685 368,265 369,917	Herrington, J Van Depoele, C. J Woods, G. T Card, G. F	Aug. 2, 1887 Aug. 16, 1887 Sept. 13, 1887	370,894 371,655 372,598 376,709	Schlesinger, W. M	Oct. 18, 1887 Nov. 1, 1887
368,948 371,664 374,225	Helmer, P	Oct. 18, 1887	374,580 10,940	Bomvill, W. G. A(Reis. of 368,948.)	Dec. 13, 1887 June 26, 1888
	172. A	IOTIVE POWI	ER.—75.	Locomotion.	4,
367,069 367,475 368,576 370,283 371,253 371,236 371,336 373,046 374,236 375,876 376,429 376,567 377,107 377,215 377,229 377,230 377,319 377,622 378,259 378,864 379,069 379,070 379,815 379,509 379,816 379,909 380,060 380,103 380,469 380,880 381,048 381,945	Shaw, E. S Van Depoele, C. J Euphrat, F Ries, E. E Daft, L Mansfield, G. W Hartman, J., jr Bidwell, B Bentley, E. M Johnson, I. LaR Creighton, W. G Weenis, D. G Hunter, R. M Schlesinger, W. M Bentley, E. M Bentley, E. M Bentley, E. M Schlesinger, W. M Honkins, W. H Mason, C. T Knight, W. H Mason, C. T Schlesinger, W. M Hopkins, W. W Hopkins, W. W Hopkins, W. W Short, S. H Enos, J. A Ries, E. E Ries, E. E. and Henderson, A. H Ries, E. E Speed, F. M Field, S. D Whipple, S. A Field, S. D Field, S. D Wyune, F Love, J. C	Aug. 2, 1887 Aug. 23, 1887 Aug. 23, 1887 Oct. 21, 1887 Oct. 11, 1887 Oct. 11, 1887 Oct. 15, 1887 Dec. 6, 1887 Dec. 6, 1887 Jan. 3, 1888 Jan. 17, 1888 Jan. 31, 1888 Jan. 6, 1888 Mar. 13, 1888 Mar. 20, 1888 Mar. 20, 1888 Mar. 20, 1888 Mar. 27, 1888 Mar. 27, 1888 Apr. 10, 1888	381,555 381,555 381,555 381,555 381,555 381,555 381,907 382,483 382,876 382,877 383,274 383,561 383,770 383,844 384,562 384,580 384,580 384,580 384,580 384,910 384,911 384,912 384,911 384,912 384,914 385,034 385,053 385,054 385,055	Hunter, R. M.— Hunter, R. M.— Schlesinger, W. M. Schort, S. H.— Connolly, T. A. aud A. A. McDougall, W. M.— Hunter, R. M.— Knight, W. H. Blake, H. T. Blake, H. T. and Sterling, C.— Faure, C. A.— Ries, E. E. and Henderson, A. H. Woods, G. T.— Condict, G. H.— Hunter, R. M.— Julien, E.— Julien, E.— Seymour, H. A.— Field, S. D.— Mengis, M. C.— Foster, H. A.— Hunter, R. M.— Hunter, R	Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 May 14, 1888 May 15, 1888 May 15, 1888 May 15, 1888 May 22, 1888 May 22, 1888 May 29, 1888 May 29, 1888 May 29, 1888 June 12, 1888 June 12, 1888 June 12, 1888 June 12, 1888 June 19, 1888 June 26, 1888

172. MOTIVE POWER.—36. Motors.

No.	Name.	Date.	No.	NAME.	DATE.
366,021	Paine, H. M	July 5, 1887	375,676	Julien, E.	Dec. 27 1887
367,651	Meston, A. W		377,217	Thomson, E	
368,405	Marvin, H. N	Aug. 16, 1887	377,255	Higham, D	
368,406	Marvin, H. N	Aug. 16, 1887	379,466	Higham, D	Mar. 13, 1888
370,000	Wheeler, S. S.	Sept. 13, 1887	379,467	Higham, D	Mar. 13, 1888
371,331	Kornmüller, G		379,802	McLaughlin, J. F	
371,436	Daft, L	Oct. 11, 1887	380,100	Edison, T. A.	Mar. 27, 1888
371,443 372,823	Fisher, F. E Sprague, F. J	Oct. 11, 1887	381,222 381,228	Diehl, P Fiske, B. A	Apr. 17, 1888
372,910	Higham, D	Nov. 8, 1887	381,768	Field, S. D	Apr. 17, 1888 Apr. 24, 1888
373,108	Thomson, E	Nov. 15, 1887	381,856	Sibley, C. C	Apr. 24, 1888
374,871	Hochhausen, W		382,589	Card, G. F.	May 8, 1888
374,883	Van Hoevenbergh, H		382,714	Mather, R. H	May 15, 1888
374,910	Stanley, W., jr		382,715	Mather, R. H	May 15, 1888
375,255	Blades, H. H	Dec. 20, 1887	383,564	Fisher, F. E	May 29, 1888
375,560	McLaughlin, J. F	Dec. 27, 1887			
-	172. MOTIV	E POWER.—8.	STEERING	G AND PROPULSION.	
368,796	Trouvé, G	Aug. 23, 1887	385,259	Fiske, B. A	June 26, 1888
	172. MOTIV	E POWER.—8	3. Transi	MISSION OF POWER.	-
970 105	Edison /F 4	Sant 90 100	270 121	Edison, T. A	Sont 90 1907
370,125 370,126	Edison, T. A	Sept. 20, 1887 Sept. 20, 1887	370,131 381,968	Tesla, N	Sept. 20, 1887 May 1, 1888
370,120	Edison, T. A	Sept. 20, 1887	381,969	Tesla, N	May 1, 1888
370,128	Edison, T. A.	Sept. 20, 1887	382,279	Tesla, N	May 1, 1888
370,129	Edison, T. A.	Sept. 20, 1887	382,280	Tesla, N	May 1, 1888
370,130	Edison, T. A.	Sept. 20, 1887	382,281	Tesla, N	May 1, 1888
	173.	CONDUCTOR	S.—13. Co	onductors.	
366,174	Kruesi, J.	July 5, 1887	375,952	Requa, L. F	Jan. 3, 1888
366,209	Duwelius, A. L	July 12, 1887	376,818	Egleston, T	Jan. 24, 1888
366,289	Zimmerman, W. P.	July 12, 1887	377,118	Schefbauer, R	Jan. 31, 1888
366,361 366,654	Westinghouse, G., jr Duby, J. M. and Edmester, J. L	July 12, 1087	377,397 378,175	Ludlow, W. I	Feb. 21 1888
367,548	Reed, T. S.	Ang. 2, 1887	379,535	Hewitt, W	
367,734	Widdicombe, R. H	Aug. 2, 1887	380,053	Sawyer, W. H.	
368,149	Higgins, P. J	Aug. 9, 1887	380,054	Sawyer, W. H	
368,987	Wheeler, S. S.		380,157	Acheson, E. G	
369,121	Patterson, W. R.		380,158	Acheson, E. G. and Anderson, B.F	
369,122	Patterson, W. R.		380,295	Phillips, W. A	Mar. 27, 1888
369,238 369,793	Emminger, D. P Jaques, J. T	Sept 13 1887	382,781 383,097	Thomas, J. D Brooks, D., jr	
370,528	Borel, F		383,919	Splitdorf, H	June 5, 1888
373,394	Dolbear, A. E	Nov. 15, 1887	384,404	Thomas, J. D.	June 12, 1888
374,948	Eckert, T. T	Dec. 20, 1887		,	,
	173. CONDU	CTORS.—94. C	ONDUCTOR	S—LEAD-COVERED.	
369,320	Dalzell, J. H	Sept. 6, 1887	374,164	Appleby, J. C	Dec. 6, 1887
369,372	Turner, T. G	Sept. 6, 1887	374,166	Appleby, J. C. Van Gestel, J. T	Dec. 6, 1887
369,592	Dalzell, J. H	Sept. 6, 1887	380,610	Van Gestel, J. T	Apr. 3, 1888
369,593	Dalzell, J. H		382,767	Patterson, W. R.	May 15, 1888
369,594 372,550	Dalzell, J. H McKnight, E	Sept. 6, 1887 Nov. 1, 1887	382,768	Patterson, W. R.	May 15, 1888
		(T.	
	173. CONDU	OCTORS.—70. C	CONDUCTOR	RS-Underground.	
366,173	Kruesi, J	July 5, 1887	369,813	Rader, G	Sept. 13, 1887
366,195	Arnold, S. W. and Cranmer, W. C	July 12, 1887	370,955	Le Vin, G. W	Oct. 4, 1887
366,457	Chenoweth, A. C	July 12, 1887	371,111	Wallace, T	Oct. 4, 1887
366,811	Bolgiano, G. C.	July 19, 1887	371,202	Lynch, J	Oct. 11, 1887
367,768	Sutton, G. D.	Aug. 2, 100/	371,965	mulisic, v. F	Oct. 20, 1001

173. CONDUCTORS.—70. CONDUCTORS—UNDERGROUND.—Continued.

No.	Name.	Date.	No.	NAME.	DATE.
373,289 374,348 374,458 374,738 374,792 376,562 376,893 378,021 378,560 378,561	Hart, W. II — Cook, G. W— Davis, J. P — Greene, E. E — Holt, G. D— Van Buren, R. and Powers, J. J Lindemann, E. C— Silliman, R. F — Waring, R. S — Waring, R. S — Waring, R. S	Dec. 6, 1887 Dec. 13, 1887 Dec. 13, 1887 Jan. 17, 1888 Jan. 24, 1888 Feb. 14, 1888 Feb. 28, 1888	378,801 378,802 379,408 379,532 380,757 381,653 382,726 382,778 382,829 383,756	Muckle, M. R., jr	Apr. 24, 1888 May 15, 1888 May 15, 1888 May 15, 1888
	173.	CONDUCTOR	S.—14. Co	NNECTORS.	
367,931 368,321 368,650 368,654 368,764 370,605 371,161 371,808 371,840 372,579 372,599 372,637	Runels, C. Bowe, P. Carpenter, J. F. Crosby, E. H. Hammer, W. J. Carpenter, J. F. Adams, T. E. Waring, R. S. Heffiner, S. and Phillips, J. II. Tafflinger, C. E. Card, G. F. Pond, F. S.	Oct. 11, 1887 Oct. 18, 1887 Oct. 18, 1887 Nov. 1, 1887 Nov. 1, 1887	373,759 374,199 374,843 375,280 375,295 378,517 379,598 380,647 380,829 385,215	Taylor, G. W Orcutt, E. L Lauge, P Forbes, F. A Kissel, A Orcutt, E. L Hering, C Otto, G De Mier, J. R Swarts, H. J Stitzel, F. and Weinedel, C	Dec. 6, 1887 Dec. 13, 1887 Dec. 20, 1887 Dec. 20, 1887 Feb. 28, 1888 Mar. 13, 1888 Mar. 20, 1888 Apr. 3, 1888 Apr. 10, 1888
-	173.	CONDUCTOR	S.—28. In	SULATORS.	
367,164 368,284 369,447	Ruger, H. KFletcher, J. R. Greenfield, E. T	Aug. 16, 1887	375,276 378,971 383,734	Emery, E. C Neal, L. M Keyes, F. E	Mar. 6, 1888
were	173. 0	ONDUCTORS	–31. Lign –	TNING RODS.	
367,348 367,435 369,915 373,407	Mast, L. L O'Brien, D Brown, W Kress, G. R.	Aug. 2, 1887 Sept. 13, 1887	375,756 377,742 384,384 385,095	Lawshe, S. R Daniels, E. O Nelson, C. B Cockrell, A	
	173	. CONDUCTOR	RS.—43. R	HEOSTATS.	
368,596 368,804 371,937 372,012 374,404 375,328 375,403	Knight, W. H. Baker, C. D. Hartman, J., jr Colburn, I. W. Field, S. D. Baker, C. D. Waterhouse, A. G.	Aug. 23, 1887 Oct. 25, 1887 Oct. 25, 1887 Dec. 6, 1887 Dec. 27, 1887	381,304 381,305 383,345 383,647 383,913 384,044 385,001	Weston, E Weston, E Crouch, F. J Lange, P Rice, E. W., jr Knight, W. H Paekard, J. W	Apr. 17, 1888 May 22, 1888 May 29, 1888 June 5, 1888 June 5, 1888
	174. ME	DICAL AND S	SURGICA	L.—87. BATHS.	
366,164 367,341	Gillam, M. M. Fuller, L. B		380,261 383,794	Jackson, R. F. and Pope, W. R. Brown, C. T	
	, 174. MEDIO	CAL AND SUI	RGICAL	-88. Body Wear.	
366,058 366,777 368,546 371,189 371,356 371,521 372,647 372,808	Williams, R. E. and Hammer, T. G. Judd, C. B. Owen, A. Fullerton, G. A. Pierce, W. L. L. Rowell, H. N. Williams, J. Kneuper, F. J.	Oct. 11, 1887 Oct. 11, 1887 Oct. 11, 1887 Nov. 1, 1887	373,044 373,088 376,730 377,218 380,568 381,260 381,953 383,899 384,561	Bennett, G. S. Morehouse, M. A. Bushfield, S. B. Totman, G. W. and P. C. Harness, C. B. Leighton, J. T. Reitler, C. W. Murphy, E. J. and Floyd, J. Buseh, C.	Nov. 15, 1887 Jan. 24, 1888 Jan. 31, 1888 Apr. 3, 1888 Apr. 17, 1888 May 1, 1888 June 5, 1888

174. MEDICAL AND SURGICAL.—89. ELECTRODES.

367,422 Mellett, L. and Prince, J. Aug. 2, 1857 380,452 Milliamson, J. R. and Hickies, Apr. 10, 188 387,2441 Milliams, P. G. and Roovers, Nov. 1, 1857 382,941 Sentley, E. M. M. May 15, 188 372,441 Milliams, P. G. and Roovers, Nov. 1, 1857 382,941 Sentley, E. M. M. May 15, 188 372,821 Sprague, F. J. Nov. 8, 1857 385,211 Sprague, F. J. June 26, 1887 Sprague, F. J. June 27, 1888 Sprague, F. J. June 27, 1888 Sprague, F. J. June 28, 1888 Sprague, F. J. Sprague, F. J. June 28, 1888 Sprague, F. J. June 28, 1888 Sprague, F. J. June 28, 1888 Sprague, F. J				COTOTIN.	ot. Binornobis.			
Tristrict September Sept	No.	Name.	DATE.	No.	NAME.	DATE.		
175. SPECIAL APPLICATIONS.—4. APPLICATIONS—GENERAL 366,680 Gardner, H. R. July 19, 1887 378,668 Feley, R. Williamsen, J. R. and Hickies Apr. 10, 1887 380,842 Williamsen, J. R. and Hickies Apr. 10, 1887 372,4418 Oliver, W		Hamilton, J. RMuir, J. S	Nov. 15, 1887 Dec. 13, 1887		and Breen, H. M.			
366,660 Gardner, H. R.		ATT ODDOLAT	DDI ICAMION					
367,422 Mellett, L		175. SPECIAL A	APPLICATION	S.—4. AP	PLICATIONS—GENERAL.			
372,824 374,495 Pope, W. R. Nov. 8, 1887 385,211 Sprague, F. J. June 26, 1887 385,211 Sprague, F. J. June 26, 1887 385,211 Sprague, F. J. June 26, 1888 371,495 Kimbail, A.S. and Brownell, G.L. Oct. 11, 1887 377,413 Smith, R. T. Feb. 7, 1888 372,361 Daft, L. Special Applications—21, 1887 374,413 Smith, R. T. Feb. 7, 1888 June 26, 1887 381,492 Bickensderfer, G. C. and Hallow, J. K. Special Applications—21, Electro-Magnets. June 12, 1888 June 12,	367,422 367,541 372,168	Mellett, L. and Prince, J. Oliver, W.	Aug. 2, 1887 Aug. 2, 1887 Oct. 25, 1887	380,842 382,734	Williamson, J. R. and Hickies, W. W. Russ, N. W	Feb. 28, 1888 Apr. 10, 1888 May 15, 1888 May 15, 1888		
368,445 Baldwin, C. W		A. W. Sprague, F. J	Nov. 8, 1887 Dec. 6, 1887	384,152	Greaves, J	June 5, 1888		
371,199 Kimball, A. S.and Brownell, G. L. Cet. 11, 1887 381,492 Blickensderfer, G. C. and Hallock, J. K.		175. SPECIAL APPLI	CATIONS.—5.	APPLICAT	rons—Tools and Machines.			
371,199 Kimball, A. S.and Brownell, G. L. Cet. 11, 1887 381,492 Blickensderfer, G. C. and Hallock, J. K.	-	-						
175. SPECIAL APPLICATIONS.—21. ELECTRO-MAGNETS. 366,408 375,749 Humans, W Jan. 3, 1888 384,321 Mallett, E. J. Jan. 17, 1888 375,697 Easton, J. W Dec. 27, 1887 377,997 Eickemeyer, R Feb. 14, 188 175. SPECIAL APPLICATIONS.—16. Heaters. Apr. 24, 188 370,282 Ries, E. E. Sept. 20, 1887 381,815 Ries, E. E. Apr. 24, 188 370,282 Ries, E. E. Apr. 24, 188 370,322 Ries, E. E. Apr. 24, 188 379,343 Ries, E. E. Apr. 24, 188 379,343 Apr. 24, 188 379,483 Apr. 24, 188 379,483 Apr. 24, 188 379,483 Apr. 24, 188 379,583 Apr. 24, 188 Apr	371,199	Kimball, A.S. and Brownell, G.L	Oct. 11, 1887	377,413	Smith, R. T Blickensderfer, G. C. and Hal-	Jan. 17, 1888 Feb. 7, 1888 Apr. 17, 1888		
T75. SPECIAL APPLICATIONS.—21. ELECTRO-MAGNETS — MACHINES FOR WINDING.		175. SPECIAL	L APPLICATION	ONS.—21.				
T75. SPECIAL APPLICATIONS.—21. ELECTRO-MAGNETS — MACHINES FOR WINDING.	200 100	I P	T 1 10 1007	07.0.000	D. L. C. D.	T 17 1000		
To Dec. 27, 1887 377,997 Eickemeyer, R Feb. 14, 1885		Humans, W	July 12, 1887 Jan. 3, 1888					
175. SPECIAL APPLICATIONS.—16. Heaters. 369,432 Buckelew, A. H. Sept. 6, 1887 381,815 Ries, E. E. Apr. 24, 188 370,282 Ries, E. E. Sept. 20, 1887 381,816 Ries, E. E. Apr. 24, 188 375,784 Thomson, E. Dec. 20, 1887 381,817 Ries, E. E. Apr. 24, 188 375,784 Apr. 24, 188 318,815 Ries, E. E. Apr. 24, 188 375,915 Barrett, J. P. and Mehren, J. F. Jan. 3, 1888 381,819 Ries, E. E. Apr. 24, 188 379,453 Barrett, J. P. and Mehren, J. F. Jan. 3, 1888 385,022 Thomson, E. Jan. 20, 1888 Jan. 20, 1888 Jan. 20, 1889 June 26, 1881 June 26,		175. SPECIAL APPLICAT	ΓΙΟΝS.—21. Ε1	ECTRO-MA	AGNETS-MACHINES FOR WINDING	ī.		
Sept. 4, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	375,697	Easton, J. W	Dec. 27, 1887	377,997	Eickemeyer, R	Feb. 14, 1888		
Sept. 20, 1887 381,816 Ries, E. E. Apr. 24, 1888 375,022 Thomson, E Dec. 20, 1887 381,816 Ries, E. E. Apr. 24, 1888 375,794 Thomson, E Jan. 3, 1888 381,819 Ries, E. E. Apr. 24, 1888 379,453 De Benardos, N Mar. 13, 1888 385,022 Thomson, E June 26, 1887 379,822 Seiler, C Mar. 20, 1888 Seiler, C Mar. 21, 1888 Se		175. SPE	CIAL APPLIC	ATIONS	-16. Heaters.			
367,841	370,282 375,022 375,784 375,915 379,453	Ries, E. É. Thomson, E. Thomson, E. Barrett, J. P. and Mehren, J. F. De Benardos, N.	Sept. 20, 1887 Dec. 20, 1887 Jan. 3, 1888 Jan. 3, 1888 Mar. 13, 1888	381,816 381,817 381,818 381,819	Ries, E. E	Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 Apr. 26, 1888		
Mar. 13, 1888 374,528 Entz, J. B		175. SPECIA	L APPLICATI	ONS.—92.	Igniting Devices.			
376,579 Burcey, C. J. T. Jan. 17, 1888 May 29, 1888 385,145 Siebel, J. E. June 26, 1886 175. SPECIAL APPLICATIONS.—93. Magnetic Locks and Bolts. 368,212 Hornaday, T. B Aug. 16, 1887 Oct. 25, 1887 374,028 Kintner, C. J Oct. 25, 1887 376,121 Tucker, C. A. Jan. 10, 1888 372,027 Kintner, C. J Oct. 25, 1887 381,725 Schneider, J Apr. 24, 1888 372,023 Kintner, C. J Oct. 25, 1887 381,856 Kintner, C. J June 19, 1888	370,801 374,528 375,118 375,414 375,614 377,505	McGowen, J. J Entz, J. B Bosworth, C. B Doering, W. H Eickemeyer, R White, L. S	Oct. 4, 1887 Dec. 6, 1887 Dec. 20, 1887 Dec. 27, 1887 Dec. 27, 1887 Feb. 7, 1888	379,396 379,977 381,440 382,001 382,231 382,249	Hogan, G. L. Parke, J. Y. Thaxter, G. E. Holtzer, C. W. Hen, L. and Weinmann, R. Bailey, E. E.	Mar. 13, 1888 Mar. 27, 1888 Apr. 17, 1888 May 1, 1888 May 1, 1888 May 1, 1888		
383,795 Bull, W. B		175. SPECIAL APPLICATIONS.—25. Incrustation.						
368,212 Hornaday, T. B Aug. 16, 1887 374,028 Woehrle, A. C Nov. 29, 1887 372,026 Kintner, C. J Oct. 25, 1887 376,121 Tucker, C. A Jan. 10, 1888 372,027 Kintner, C. J Oct. 25, 1887 381,725 Schneider, J Apr. 24, 1888 372,023 Kintner, C. J June 19, 1888		Burcey, C. J. T	Jan. 17, 1888 May 29, 1888	385,145	Siebel, J. E	June 26, 1888		
372,026 Kintner, C. J. Oct. 25, 1887 376,121 Tucker, C. A. Jan. 10, 1888 372,027 Kintner, C. J. Oct. 25, 1887 381,725 Schneider, J. Apr. 24, 1888 372,023 Kintner, C. J. Oct. 25, 1887 384,856 Kintner, C. J. June 19, 1888		175. SPECIAL AF	PLICATIONS.	—93. Mac	ENETIC LOCKS AND BOLTS.			
· · · · · · · · · · · · · · · · · · ·	372,026 372,027 372,028	Kintner, C. J Kintner, C. J Kintner, C. J	Oct. 25, 1887 Oct. 25, 1887 Oct. 25, 1887	376,121 381,725	Tucker, C. A Schneider, J	Apr. 24, 1888		

175. SPECIAL APPLICATIONS.—90. SEPARATORS.

No.	Name.	DATE.	No.	Name,	DATE.			
373,211 377,518 383,863	Wenström, J Edison, T. A Conkling, G	Nov. 15, 1887 Feb. 7, 1888 June 5, 1888	383,918 384,035 384,645	Smith, M. H.——————————————————————————————————	June 5, 1888 June 5, 1888 June 19, 1888			
	175. SPECIAL	APPLICATIO	NŚ.—84.	Valve Controllers.				
366,324 368,674 369,801 370,007 373,061 374,072 374,374	Johnson, W. S	July 12, 1887 Aug. 23, 1887 Sept. 13, 1887 Sept. 13, 1887 Nov. 15, 1887 Nov. 29, 1887 Dec. 6, 1887	375,001 376,651 380,817 381,866 383,901 384,676	Roosevelt, A	Dec. 20, 1887 Jan. 17, 1888 Apr. 10, 1888 Apr. 24, 1888 June 5, 1888 June 19, 1888			
	176. ELECTRIC I	LIGHTING.—8	0. Cut-Ou	TS-ELECTRO-MAGNETIC.				
367,901 369,436 374,017	Freeman, J. P Depuy, A. B Tirrell, J. P	Sept. 6, 1887	374,652 380,114 382,625	Bosworth, C. B. Heisler, C. Stitzel, F.	Dec. 13, 1887 Mar. 27, 1888 May 8, 1888			
	176. ELECTRI	C LIGHTING.	—79. Cuт	S-OUTS-MECHANICAL.				
366,407 366,634 367,082 368,221 376,976 377,237 379,501 381,269	Lange, P. Macrae, R. and Tavener, C. F.— Wightman, M. J. and Lemp, H. McDaniel, C. W.— Bergmann, S. and Dempster, J. T. Cole, G. H.— Brann, F. W. and Kinney, G. L. Morse, P. C.—	July 26, 1887 Aug. 16, 1887 Jan. 24, 1888 Jan. 31, 1888 Mar. 13, 1888	381,446 382,332 382,333 383,933 384,116 384,440 385,023	Von der Kammer, J Stirling, C. C' Stirling, C. C Wood, J. J Baxter, W, jr Greim, O. F Tracy, P. J	Apr. 17, 1888 May 8, 1888 May 8, 1888 June 5, 1888 June 5, 1888 June 12, 1888 June 26, 1888			
	176. ELECTI	RIC LIGHTÍNG	3.—78. Ct	ut-Outs—Thermal.				
366,350 368,765 369,889 374,842	Shallenberger, O. B.——————————————————————————————————	Aug. 23, 1887 Sept. 13, 1887	375,476 377,073 380,766 383,891 385,067	Chamberlain, J. C.——————————————————————————————————	Dec. 27, 1887 Jan. 31, 1888 Apr. 10, 1888 June 5, 1888 June 26, 1888			
-	176. ELE	CTRIC LIGHT	TING.—17	. Lights—Arc.				
369,640 370,572 377,615 379,792 380,074	Hauss, D. J. Thomson, E. and Rice, E. W., jr. Higgins, E. E. and James, J. Knowles, E. R. Adams, T. E.	Sept. 27, 1887 Feb. 7, 1888 Mar. 20, 1888	380,271 380,435 380,545 382,421	Adams, C. W	Apr. 3, 1888			
	176. ELECTRIC LIGHTING.—103. LIGHTS—Arc, GRAVITY FEED, FRICTIONAL.							
366,613 366,614 369,349 369,456 369,568	Waterhouse, A. G Waterhouse, A. G Loomis, O. P Lemp, H	July 12, 1887 Sept. 6, 1887 Sept. 6, 1887	373,954 374,129 376,007 383,411	Homans, C. A	Nov. 29, 1887 Jan. 3, 1888			
-	176. ELECTRIC LIC	HTING.—104.	Lights-	-ARC, GRAVITY FEED, GEAR.	-			
367,002 367,081 367,568 369,194 370,423 370,424	Homans, C. A. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Loomis, O. P. Skinner, J. J. Skinner, J. J.	Aug. 2, 1887 Aug. 30, 1887 Sept. 27, 1887	373,761 378,616 378,818 384,817	Wiese, G. A Poland, L. N. P- Wightman, M. J. and Rasmussen, E. Wood, J. J	Nov. 22, 1887 Feb. 28, 1888 Feb. 28, 1888 June 19, 1888			

176. ELECTRIC LIGHTING.—105. LIGHTS—ARC, POSITIVE FEED.

No.	NAME.	DATE.	No.	Name.	Date.
366,938	Doubrava, S	July 19, 1887	372,986	Mathis, S.	Nov. 8, 1887
	176. ELECTRIC LI	GHTING.—102	LIGHTS-	-Filaments and Carbons.	
366,353 369,091 369,267 369,664 369,666 10,866 370,124 370,992 370,995	Thompson, E. P. Bernstein, A. Thompson, E. P. Thompson, E. P. Thompson, E. P. Lister, J. T. (Reis. of 347,247.) Edison, T. A. Thompson, E. P. Thompson, E. P.	Aug. 30, 1887 Aug. 30, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 20, 1887 Oct. 4, 1887	370,998 371,000 371,001 371,002 378,258 381,614 382,560 383,484 383,602	Thompson, E. P. Thompson, E. P. Thompson, E. P. Thompson, E. P. Mace, T. Clingman, T. L. Seel, C. Packard, J. W. Metzradt, H. J. von	Oct. 4, 1887 Oct. 4, 1887 Oct. 4, 1887 Feb. 21, 1888 Apr. 24, 1888 May 8, 1888 May 29, 1888
	* '			HTS—INCANDESCENT,	
366,352 366,673 368,857 370,993 370,994 370,996 370,997 370,999 374,224	Thompson, E. P Lemp, H. and Wightman, M. J_ Settle, M Thompson, E. P Thompson, E. P Thompson, E. P Thompson, E. P Thompson, E, P Wheeler, M	July 12, 1887 July 19, 1887 Aug. 23, 1887 Oct. 4, 1887 Oct. 4, 1887 Oct. 4, 1887 Oct. 4, 1887 Oct. 4, 1887	374,850 376,823 379,770 382,846 383,150 383,616 383,675 383,676	Reinmann, C. F. Leber, L. H Edison, T. A. Thompson, E. P. Moses, O. A Byllesby, H. M. and Lange, P. Thompson, E. P. Thompson, E. P.	Jan. 10, 1888 Mar. 20, 1888 May 15, 1888 May 22, 1888 May 29, 1888 May 29, 1888
	176. ELECTRIC	LIGHTING	-98. Liфн	TS—SOCKETS AND KEYS.	
366,606 371,570 376,583 379,255 379,842	Pope, F. L., Byllesby, H. M. and Lange, P. Fisher, J. J. Colby, E. A. Thone, F. Wilkes, G.	Jan. 17, 1888 Mar. 13, 1888	380,202 380,215 382,110 384,478 384,815 385,039	Heisler, C Moore, M. E Reilly, C. P Spink, J. and Gauzentes, C Wood, J. J Carey, W. A	Mar. 27, 1888 May 1, 1888 June 12, 1888 June 19, 1888
	176. ELECTRIC LI	GHTING.—19.	Lights-	-Systems and Appliances.	
366,124 366,292 366,374 367,402 369,665 370,052 371,003 371,915 372,334 372,940 372,942 373,452	McElroy, J. F Arnold, C. R. Byllesby, H. M. and Lange, P. Irwin, J. H. Thompson, E. P. Ferguson, A. C. Thompson, E. P. Baker, C. D. Sawyer, F. A Soden, F. H. and Goehst, H. Gennert, E. F.	July 12, 1887 July 12, 1887 Aug. 2, 1887 Sept. 6, 1887 Sept. 20, 1887 Oct. 4, 1887 Oct. 25, 1887 Nov. 1, 1887 Nov. 8, 1887	375,014 375,117 375,702 376,423 376,617 378,358 380,945 382,272 383,046 383,158 383,332 383,332	Slattery, M. M. M. Bergmann, S. Fasoldt, F. C Arnold, C. R. Vance, S. B. H Doubleday, H. M. Shallenberger, O. B. Robb, J. T Doubleday, H. M. Vance, S. B. H Vance, S. B. H Belfield, R.	Dec. 20, 1887 Dec. 27, 1887 Jan. 17, 1888 Jan. 17, 1888 Feb. 21, 1888 Apr. 10, 1888 May 1, 1888 May 15, 1888 May 22, 1889 May 22, 1889
	177. E	LECTRIC SIG	NALING.	-1. Alarms.	
366,212 370,851 371,626 373,073 378,876	Galvin, J. A	Oct. 4, 1887 Oct. 18, 1887 Nov. 15, 1887 Mar. 6, 1888	380,824 383,946 384,200 384,212 384,570 NG.—2. A	Schlepegrell, F. W	June 5, 1888 June 5, 1888 June 5, 1888
367,523 368,336 370,439 379,144	Hongh, B. F	Aug. 2, 1887 Aug. 16, 1887 Sept. 27, 1887	381,852 382,439 382,444	Schuchman, A	May 8, 1888

177. ELECTRIC SIGNALING.—3. ANNUNCIATORS.

No.	Name.	Date.	No.	Name.	DATE.
365,935 367,332 367,925 369,672 369,810 375,442 376,171 376,863 377,256	O'Connell, J. J. Baxter, C. Poole, W. C. and Sehnepf, J. Woolley, A. G. Patten, F. J. Cox, H. B. Tirrell, J. P. Cutting, W. H. Hoffman, J. W.	Sept. 6, 1887 Sept. 13, 1887 Dec. 27, 1887 Jan. 10, 1888 Jan. 24, 1888 Jan. 31, 1888	381,576 381,709 381,738 381,772 382,997 383,015 383,566 383,725 384,088	Parrish, M. W Martin, M Willis, J. B Geary, J McTighe, T. J Scribner, C. E Fisher, F. E Gill, W. E. and Segerdahl, R Scribner, C. E	Apr. 24, 1888 Apr. 24, 1888 Apr. 24, 1888 May 15, 1888 May 15, 1888 May 29, 1888 May 29, 1888 June 5, 1888
379,758 380,010	Botts, B. N.——————————————————————————————————		384,430	Downerd, H. S.	June 12, 1888
	177. I	ELECTRIC SIG	NALING	.—7. Bells.	
9.00 000		1 99 1005	079.100	St. 1 C 35	37 15 1005
368,809 369,808	Carter, F. S Noyes, J. G		373,102 375,544	Sternberg, G. M Farnham, I. H	Nov. 15, 1887 Dec. 27, 1887
369,989	Jensen, H. P. F., Webb, B. W.		377,539	Stocker, W. F	Feb. 7, 1888
050.001	and Jensen, J.	0	377,916	Tirrell, J. P	Feb. 14, 1888
370,831 371,445	Tirrell, J. P	Oct. 4, 1887	378,124 381,314	Wood, F. B.	Feb. 21, 1888 Apr. 17, 1888
372,657	Cox, H. B	Nov. 8, 1887	381,765	De Redon, C. F	Apr. 24, 1888
373,043	Baker, J. M	Nov. 15, 1887	381,823	Bickford, J. H	Apr. 24, ISSS
	177. ELI	ECTRIC SIGNA	LING.—	26. Indicators.	
0=1 =00	H.D. 1.0		0=0.440		T. 1 . 00 . 1000
371,583 372,247	Hobby, A. S. Adams, A. F		378,440 381,279	Guntz, G	Feb. 28, 1888 Apr. 17, 1888
374,322	Ricketson, J. C.	Dec. 6, 1887	381,669	Bickford, J. H	
376,281	Berghausen, A	Jan. 10, 1888	383,583	McLaughlin, J. F	May 29, 1888
	177. ELECT	RIC SIGNALI	NG.—38.	Railway-Signals.	
3 67,598	Chang E M	0 1005	977.011	Williams, C. W	T 91 1000
368,066	Chase, E. M	Aug. 2, 1887	377,344 377,626	Le Grande, W. W.	
369,929	Farrar, J. H	Sept. 13, 1887	377,634	Nicholson, T. S	Feb. 7, 1888
370,243 371,147	Chase, N. F	Sept. 20, 1887	380,165	Bennett, A. W. and Millen, J. M	
371,670	Milroy, P	Oct. 18 1887	+ 380,316 382,299	Farrar, J. H Gedge, B. H	
372,865	Pearce, F	Nov. 8, 1887	382,515	De Redon, C. F	
374,198	Oreutt, E. L	Dec. 6, 1887	384,810	Williams, T. D. and Lucock, J. S.	June 19, 1888
374,733 375,063	Currie, S. C. C	Dec. 13, 1887 Dec. 20, 1887	484,811 384,962	Williams, T. D. and Lueock, J.S. Currie, S. C. C	June 19, 1888 June 26, 1888
	177. ELJ	ECTRIC SIGNA	 VLING:	39 Recorders	
		1	11111.01	Telooteblate.	
369,608	Molyneux, B. S.	Sept. 6, 1887	381,993	Fessenden, G. B.	May 1, 1888
371,640 381,992	Thompson, E. W Fessenden, G. B	Oct. 18, 1887 May 1, 1888	383,485	Palmer, A. C	May 29, 1888
	<u>'</u>	, , , , , , ,			
	178.	TELEGRAPH	Y.—46. A	UTOMATIC.	
366,229	Maiche, L		373,967	Delany, P. B	Nov. 29, 1887
367,219	McCoy, J. A		374,038	Burke, C. G	Nov. 29, 1887
371,980 372,245	Selden, C	Oct. 25, 1887	379,016 381,246	Kunhardt, D	Mar. 6, 1888 Apr. 17, 1888
372,475	Leggo, W. A.	Nov. 1, 1887	001,240	11000III 100, D. 1	11p1. 11, 1000
	178. T	ELEGRAPHY.	-10. CIRC	cuit-Closers.	
373,207	Tirrell, J. P		377,538	Stocker, W. F	Feb. 7, 1888
374,036 375,238	Bosworth, C. B		379,062	Hamilton, E. M.——————————————————————————————————	Mar. 6, 1888
376,238	Cole, W. R		380,382 385,041	Carey, W. A.	June 26, 1888
376,072	Cole, W. R		, , , , , ,		

178. TELEGRAPHY.—45. CIRCUITS AND SYSTEMS.

No.	NAME.	DATE.	No.	NAME.	Date.
366,970	Melbourne, W. A	July 19, 1887	375,727	Bridger, H. C	Jan. 3, 1888
370,132	Edison, T. A.	Sept. 20, 1887	377,110	Logue, W. S	Jan. 31, 1888
-370,898	Selden, C	Oct. 4, 1887	377,879	Ader, C	Feb. 14, 1888
373,968	Delany, P. B	Nov. 29, 1887	381,764	Delany, P. B	Apr. 24, 1888
	17:	s. TELEGRAP.	HY.—48.	Duplex.	
375,898 377,374	Selden, CEdison, T. A	Jan. 3, 1888 Feb. 7, 1888	378,181	Selden, C	Feb. 21, 1888
	178	. TELEGRAPI	IY.—49.	Dynamo.	
381,251	Jones, F. W	Apr. 17, 1888	381,839	Jones, F. W	Apr. 24, 1888
	, , , , , , , , , , , , , , , , , , ,				
	1	78. TELEGRA	PHY.—50). Fire.	
365,911	Falsart W H and Scale I	July 5, 1887	379,339	Stevens, G. M	Mar 12 1900
366,154	Eckert, W. H. and Seely, J. A. Chase, H. A.	July 5, 1887	379,404	Lockwood, W. V	Mar. 13, 1888 Mar. 13, 1888
367,205	Frost, J. W	July 26, 1887	380,022	Cole, F. W	Mar. 27, 1888
368,907	Burgher, C		380,655	Martin, M	Apr. 3, 1888
370,328	Flanders, B. S		380,778	Wilson, J. C	Apr. 10, 1888
370,885	Neeper, A. M.		380,779	Wilson, J. C.	Apr. 10, 1888
371,876	Burgher, C		380,780	Wilson, J. C	Apr. 10, 1888
375,083	Martin, M		381,896	Young, J.	Apr. 24, 1888
375,299	Martin, M.		382,253	Carroll, W	May 1, 1888
375,569	Rogers, C. D		383,220	Gill, J. B	May 22, 1888
375,617	Firman, L. B		383,941 384,476	Browne, W. D	June 5, 1888
376,133 378,927	Barrett, J. P. Gibson, E. T.	Jan. 10, 1888 Mar. 6, 1888	384,875	Stevens, G. M.	June 12, 1888 June 19, 1888
378,983	Smith, A. A	Mar. 6, 1888	904,019	Stevens, G. M.	June 13, 1000
910,000	Shirth, A. A	Mar. 0, 1000			_
	178. TELEGRAI	PHY.—101. Fir	E-ALARM	as and Extinguishers.	
367,323	Shaffer, C H	July 26, 1887	380,241	Barnes, W. A.	Mar. 27, 1888
367,350	McLaughlin, J. F		382,788	Young, J.	May 15, 1888
377,083	Milliken, G. F. and Lytle, H. B	Jan. 31, 1888	383,377	Smith, G. G	May 22, 1888
378,078	Barnes, W. A.		383,605	Wheeler, A. D.	May 29, 1888
	1	78. TELEGRA	PHY.—29	. Keys.	
3 66,400	Keating, A. S.	July 12, 1887	378,332	Melbourne, W. A	Feb. 21, 1888
368,342	Kunhardt, D	Aug. 16, 1887	379,063	Hamilton, E. M.	Mar. 6, 1888
373,152	Oakes, A		380,310	Borland, D. R	Apr. 3, 1888
	178. TEL	EGRAPHY.—3	0. Lightn	ING ARRESTERS.	
369,036	Sperry, E. A	Aug. 30, 1887	384,042	Keilholtz, P. O	June 5, 1888
			l		
	178. TI	ELEGRAPHY	—35. Mor	SE REGISTERS.	
375,786	Noyes, J. G				Jan. 3, 1888
	178.	TELEGRAPH	Y.—51. M	IULTIPLEX.	
3 68,931	Cassagnes, G. A	Aug. 30, 1887	375,339	Cassagnes, G. A	Dec. 27, 1887
				1	

178. TELEGRAPHY.—54. PRINTING.

No.	NAME.	Date.	No.	NAME.	Date.		
365,982 365,994 366,166 366,178 366,628 367,650 367,720 368,217 368,411 363,541 368,692 368,858 368,859 369,577 370,357	Field, S. D Healy, C. L Healy, C. L Mahnken, H. and Healy, C. L McLaughlin, J. F Mahnken, H Linville, J. H McLaughlin, J. F Mahnken, H Sheehy, R. J Sheehy, R. J	July 5, 1887 July 5, 1887 July 5, 1887 July 12, 1887 Aug. 2, 1887 Aug. 16, 1887 Aug. 16, 1887 Aug. 16, 1887 Aug. 23, 1887 Aug. 23, 1887 Sept. 6, 1887	370,691 370,978 373,508 374,444 377,763 378,107 378,436 378,437 383,450 384,322 384,322 384,324 384,325	Field, S. D	Dec. 6, 1887 Feb. 14, 1888 Feb. 21, 1888 Feb. 28, 1888 Feb. 28, 1888 May 29, 1888 June 12, 1888 June 12, 1888		
	178. 7	TELEGRAPHY	r.—55. Qu	ADRUPLEX.			
366,695	Smith, G	July 19, 1887	381,220	Davis, M. M	Apr. 17, 1888		
	178. 7	TELEGRAPHY	.—56. RA	ILWAY-CAR.			
368,512 369,880 373,160 373,383 373,915	Burton, G. D Phelps, L. J ——————————————————————————————————	Sept. 13, 1887 Nov. 15, 1887 Nov. 15, 1887	379,459 380,646 381,343 381,344 384,830	Glasgow, W. and Stevens, S. S.—De Mier, J. R.—De Mier, J. R.—De Mier, J. R.—Edison, T. A. and Gilliland, E. T	Apr. 3, 1888 Apr. 17, 1888 Apr. 17, 1888		
	1	78. TELEGRA	PHY.—63	. Reed.			
367,270 370,576	Colman, F. BVan Rysselberghe, F	July 26, 1887 Sept. 27, 1887	370,577 382,195	Van Rysselberghe, FSelden, C	Sept. 27, 1887 May 1, 1888		
	178. TELI	EGRAPHY.—4	l. Relays	AND SOUNDERS.			
366,192 371,531 372,155 376,569 377,862 378,552 379,060 379,061	Woods, G. T	Oct. 11, 1887 Oct. 25, 1887 Jan. 17, 1888 Feb. 14, 1888 Feb. 28, 1888 Mar. 6, 1888	379,064 383,843 384,222 384,323 384,326 384,350 385,214	Hamilton, E M	Mar. 6, 1888 May 29, 1888 June 5, 1888 June 12, 1888 June 12, 1888 June 12, 1888 June 26, 1888		
	178.	TELEGRAPH	Υ.—42. R	EPEATERS.			
376,661 378,464	Kölzer, J Russell, L	Jan. 17, 1888 Feb. 28, 1888	379,203	Kölzer, J	Mar. 6, 1888		
178. TELEGRAPHY.—69. TRANSMITTERS.							
368,450 372,805 372,846	Bloom, W. H Juengst, G Evans, W. W	Nov. 8, 1887	374,390 379,368	Bixby, A.————————————————————————————————————	Dec. 6, 1887 Mar. 13, 1888		
	179. TELEPHONY.—82. Anti-Induction Devices.						
371,555 371,557	Curran, J Drew, S. C		372,078	Metzger, H	Oct. 25, 1887		

179. TELEPHONY.—81. Conductors—Anti-Inductive.

					744.4		
No.	Name.	DATE.	No.	NAME.	DATE.		
369,259	Patterson, W. R.	Aug. 30, 1887	369,394	Campbell, H. F	Sept. 6, 1887		
179. TELEPHONY.—57. TELEPHONES—CALLS.							
371,752 372,404	Foster, G. W Deprez, M. and Abdank-Aba- kanowicz, B.	Oct. 18, 1887 Nov. 1, 1887	373,910 376,973 383,563	Scribner, C. E Wood, P. W. and J. B Fisher, F. E	Nov. 29, 1887 Jan. 31, 1888 May 29, 1888		
	179. TELEPHONY.—58. TELEPHONES—DETAILS.						
366,994 367,003 367,004 370,230	Bradford, T. C Huewe, G. A Huewe, G. A Allison, M. H	July 19, 1887 July 19, 1887 July 19, 1887 Sept. 20, 1887	370,847 374,439 384,201	Balloch, E. A Whitney, R. W. and Pultz, F Gilliland, E. T	Dec. 6, 1887		
	179. TEL	EPHONY.—59	TELEPHO	nes—Electric.			
365,776 365,777 365,779 365,780 365,780 365,781 367,042 368,628 369,376 369,377 369,378 369,379 371,241 372,455 375,862	Bonta, J. W Irwin, J. H Todd, H. L Watkins, F. C Berthold, V. M	July 5, 1887 July 26, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Oct. 11, 1887 Nov. 1, 1887 Jan. 3, 1888	376,060 377,475 377,612 378,044 378,298 10,915 380,426 380,427 380,438 380,427 380,438 380,752 380,905 381,234 381,382	Beedy, S. E. Bahr, J. F. Hayes, H. V. Edison, T. A. Farmer, M. G. Irwin, J. H.—(Reis of 209,266) Farmer, M. G. Farmer, M. G. House, W. D. House, W. D. Farnham, I. H. Marston, F. Du P. Graham, J. M. Johnson, E. H.	Feb. 7, 1888 Feb. 7, 1888 Feb. 14, 1888 Feb. 21, 1888 Mar. 27, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 10, 1888 Apr. 10, 1888 Apr. 10, 1888 Apr. 17, 1888		
366,190 369,256 370,477 375,456 376,706	Safford, A. G Martin, M Hayes, H. V Newton, E. C Brown, F. H	Aug. 30, 1887 Sept. 27, 1887 Dec. 27, 1887	376,707 378,385 378,780 	Brown, F. II. Brown, A. W. Ehrlich, L., Dubinski, B. and Rein, G. Collins, W. II.	Jan. 17, 1888 Feb. 21, 1888 Feb. 28, 1888 Apr. 24, 1888		
	179. TELEPHON	Y.—77, TELEP	HONES-R	ELAYS AND REPEATERS.			
382,856	Barrett, J. A				May 15, 1888		
				ones—Supports.			
			1				
370,193 371,757	Jermain, S. P Hott, A. L	Sept. 20, 1887 Oct. 18, 1887	376,615	Thurber, W. E. and McConnell, J	Jan. 17, 1888		
	179. TELEP	HONY.—85. T	ELEPHONE	s—Switch-Boards.			
367,670 367,730	Scribner, C, ESeely, J. A	Aug. 2, 1887 Aug. 2, 1887	381,303	Welden, R. H	Apr. 17, 1888		
	179. TEL	EPHONY.—71	. TELEPHO	ones—Switches.			
371,260 378,250	Goodridge, W. MHinton, J. R. H		379,074	Lambdin, C	Mar. 6, 1888		

179. TELEPHONY.—64. TELEPHONES—Systems.

No.	Name.	Date.	No.	Name.	DATE.	
367,754 370,293 371,940 373,519 374,907 375,685 375,925 377,441 377,788- 378,030 378,679 381,430 381,431 382,461	Goodridge, W. M.— Watkins, F. C.— Holcombe, A. G.— Farnham, I. H.— Scribner, C. E.— Scribner, C. E.— Crawford, J. and Ker, J. B.— Scribner, C. E.— Trayer, E. P. and Kugler, G. H. Warner, E. P. Haskins, C. H. Scribner, C. E.— Scribner, C. E.— Scribner, C. E.— Dyer, R. N.—	Sept. 20, 1887 Oct. 25, 1887 Nov. 22, 1887 Dec. 13, 1887 Dec. 27, 1887 Jan. 3, 1888 Feb. 7, 1888 Feb. 14, 1888 Feb. 14, 1888 Feb. 28, 1888 Apr. 17, 1888 Apr. 17, 1888 May 8, 1888	382,474 382,475 382,475 382,477 382,518 383,013 383,014 383,017 383,018 383,269 383,495 384,477 384,644 385,205	Kellogg, M. G Eldred, H. H Scribner, C. E Scribner, C. E Scribner, C. E Ballard, S. R Scribner, C. E	May 8, 1888 May 8, 1888 May 15, 1888 May 15, 1888 May 15, 1888 May 22, 1888 May 29, 1888 June 12, 1888	
	179. TELEPHO	NY.—101. TELE	EPHONES—	Systems—Automatic.		
372,378 375,543	Lockwood, T. D Farnham, I. H		381,938	McCoy, J. A	May 1, 1888	
		2. APPAREL	.—4. Cut	TING.		
372,926	Nevens, F. W				Nov. 8, 1887	
	8. BLEAC	CHING AND I	YEING.	-2. Bleaching.		
378,681 379,465	Hermite, E. and Cooper, C. FHermite, E. and Cooper, C. F		381,372 382,159	Hermite, E. and Cooper, C. FHermite, E.	Apr. 17, 1888 May 1, 1888	
	14. BI	RIDGES.—3. Gr	RDERS AN	7D COLUMNS.		
373,925 374,103	Copeland, H. P	Nov. 29, 1887 Nov. 29, 1887	377,953	Mills, A	Feb. 14, 1888	
		14. BRIDGES.	.—10. Tov	vers.	,	
366,603 368,766 368,955	Parker, F. H Hart, M. J Lacey, F. H	Aug. 23, 1887	375,977 377,894	Banks, D. B. and Hutchins, G. K. Hart, M. J	Jan. 3, 1888 Feb. 14, 1888	
	18. CAOUTCHOUC AX	VD MINOR PL	ASTICS	-11. Insulating Materials,		
366,263 366,336 366,337 366,898	Silliman, R. F Merritt, H W Merritt, H. W Tatham, J	July 12, 1887 July 12, 1887	371,406 371,681 375,633 376,019	Barnes, W. W. Grant, J. James, De W. C. Wilder, C. H	Oct. 11, 1887 Oct. 18, 1887 Dec. 27, 1887 Jan. 3, 1888	
	23. CI	HEMICALS.—20	3. Purify	ING WATER.		
383,184	Leeds, A. R.				May 22, 1888	
	23. CHEMICALS.—13. Salines.					
379,820	Schanschieff, A				Mar. 20, 1888	
	24. CI	LASPS AND B	UĆKLES.	—6. Clasps.		
373,767	Butler, H. D.				Nov. 22, 1887	

58. HOROLOGY.—15. TIME ALARMS.

No.	NAME.	DATE.	No.	Name.	DATE.
370,932 371,696 378,202	Colby, E. J Meads, S. P. Jensen, H. P. F., Webb, B. W. and Jensen, J.	Oct. 18, 1887	383,439 384,412	Colby, E. J	
	58.	HOROLOGY	—16. Тімн	e-Checks.	
367,662	Reams, A. J	Aug. 2, 1887	376,920	Skrivan, O. and Dvorak, F	Jan. 24, 1888
	58. H	OROLOGY.—2	8. Clocks	—ELECTRIC.	,
366,513 367,663 367,898 367,960 369,386 373,138	Scales, W. S Reams, A. J Drawbaugh, D Clarke, C. L Bard, E. F Hexamer, C. J	Aug. 2, 1887 Aug. 9, 1887 Aug. 9, 1887 Sept. 6, 1887	377,895 379,511 383,655 383,786 384,271 384,472	Harvey, W. B.——————————————————————————————————	Mar. 13, 1888 May 29, 1888 May 29, 1888 June 12, 1888
	58.	HOROLOGY	–33. Тіме	SIGNALS.	
375,160	Housel, G. W				Dec. 20, 1887
		32. DENTISTE	RY.—2. D	RILLS.	'
3 75,834	375,834 Register, H. C				
	35. EDUC	CATIONAL AP	PLIANC	ES.—10. SLATES.	
381,271	Mueller, E. T				Apr. 17, 1888
	40. ADVE	ERTISING.—12.	Snow.Bo	DXES AND CARDS,	
378,339	Smith, A. C				Feb. 21, 1888
	41. FI	NE ARTS.—8.	Engravin	RG MACHINES.	
369,867	Marsh, E. A				Sept. 13, 1887
	42.]	FIRE ARMS.—	6. Breeci	H LOADERS.	
365,843	Monfort, E. A		•		July 5, 1887
	64. JOURNAL BOXES, PULI	EYS, AND SH	AFTING.	-Journal Boxes, Roller Bea	RINGS.
384,506	Brewer, W. J				June 12, 1888
	65. KITCH	EN AND TAB	LE ART	ICLES.—13. Cups.	
366,460	Collins, C				July 12, 1887
	66. KNI	TTING AND 1	NETTING		
379,832	Talcott, W., 2d	Mar. 20, 1888	382,593	Draper, C	May 8, 1888

67. LAMPS AND GAS FITTINGS.—8. GAS FITTINGS.

No.	Name.	Date.	No.	NAME,	DATE.
		N 1 1000	201.000	TYL 1 2 - T	
381,921	Gennert, E. F	May 1, 1888	384,302	Wright, J	June 12, 1888
67. LAMPS AND GAS FITTINGS.—5. Drop Lights and Hangers.					
380,301	Tompkins, W. M			~	Mar. 27, 1888
	67. LAMPS	AND GAS FIT	TINGS.	-22. Lamp Shades.	
372,313	Haines, R				Nov. 1, 1887
	67. LAMPS	AND GAS FI	TTINGS.	-28. Reflectors.	-
381,167	Purdy, H				Apr. 17, 1888
	70. LOCKS A	ND LATCHES	S.—18. Lo	CKS—PERMUTATION.	
378,568	Baumann, R				Feb. 28, 1888
		72. MASONRY	7.—21. Su	BWAYS.	
384,860	Meehan, M				June 19, 1888
-	73. MEASURING INSTRUMENTS,—3. BALANCES,				
374,013	Tarbox, J. E	Nov. 29, 1887	374,581	Boyle, J. C	Dec. 13, 1887
	73, MEASU	RING INSTRU	JMENTS.	-75. Fare-Boxes.	
382,756	Crowdus, W. A				May 15, 1888
	73. MEASUE	ING INSTRUM	MENTS.—	-19. Grain Meters.	1
368,662 377,383	Foster, B. R Holley, W. A. and Malin, W	Aug. 23, 1887 Feb. 7, 1888	377,591	Whitney, E. R.	Feb. 7, 1888
)	LMENTS	.—34. Recorders.	
367,708	Dudley, P. H		379,865	Fuller, F. L	Mar. 20, 1888
			1		1141. 20, 1000
			UMENIS	5.—35. Registers.	
369,595	Dietzman, A. S. and Cressey, G.	Sept. 6, 1887	373,397	Guest, J. H	Nov. 15, 1887
73. MEASURING INSTRUMENTS.—69. Ships' Logs.					
384,362	Haskell, E. E				June 12, 1888
	73. MEASUF	RING INSTRU	MENTS.—	-46. Spring Scales.	
371,869	Whitney, E. R.				Oct. 18, 1887
	1				

73. MEASURING INSTRUMENTS.—85. TELETHERMOMETERS.

No.	NAME.	DATE.	No.	NAME.	DATE.
376,149 379,766	Haight, H. J Dibble, F. J	Jan. 10, 1888 Mar. 20, 1888	382,976	Hardinge, H. W	May 15, 1888
	73. MEASURIN	NG INSTRUMI	ENTS.— 51	. Testing Machines.	
383,385	Abbott, A. V				May 22, 1888
	73. MEASUR	ING INSTRUM	MENTS.—	52. Thermometers.	2
365,905	Brewster, W. F	July 5, 1887	380,872	Draper, D	Apr. 10, 1888
73. MEASURING INSTRUMENTS.—65. THERMOSTATS.					
366,176 371,121 372,208 372,409 373,103 373,104 376,880	Mackey, J. C Barton, W. H. H. Dermitt, S. W. and W. V Fischer, W. and Stiehl, T Sternberg, G. M. Sternberg, G. M. Haight, H. J.	Oct. 4, 1887 Oct. 25, 1887 Nov. 1, 1887 Nov. 15, 1887 Nov. 15, 1887	377,021 378,137 378,435 379,201 380,394 382,165 383,536	Easton, L. F	Feb. 28, 1888 Mar. 6, 1888 Apr. 3, 1888
	74. MACHIN	E ELEMENTS	.—26. GE	aring—Frictional.	
367,241	Schleicher, A. W				July 26, 1887
	75. METALLURO	GY.—58. REDUC	ING AND	SEPARATING ALUMINIUM.	
382,183	,183 Omholt, J				
	75. META	LLURGY.—34	AMALGAM	ATORS—ELECTRIC.	
370,366	Birmingham, D. W				Sept. 20, 188
	82. METAL TURNIN	G, PLANING,	AND MII	LLING.—16. MISCELLANEOUS.	
379,344	Tittle, D. J., jr				Mar. 13, 1888
		84. MUSIC.—26	. Piano A	actions.	
368,195	Dieckmann, G. F				Aug. 16, 1887
	. 84. MU	SIC.—50. Orga	n Actions	s—PNEUMATIC.	
374,088	Roosevelt, H. L.				Nov. 29, 1887
	84. M	USIC.—68. REC	cording A	TTACHMENTS.	1
373,644	Carpentier, J				Nov. 22, 1887
	87. OILS, 1	FATS, AND GI	UE.—4. I	DECOMPOSING FATS.	1
373,691	Schwalm, H. F. D				Nov. 22, 1887

88. OPTICS.—19. Compasses.

No.	Nabie.	Date.	No.	NAME.	DATE.
381,693 385,042	Gross, A		385,043	Chase, H. A	June 26, 1888
	89 OR	DNANCE.—12.	OPERATIO	NG ORDNANCE.	
3 79,783	Hill, E				Mar. 20, 1888
	89. OR	DNANCE.—21.	ELECTRIC	APPLIANCES.	
372,958	Bradley, W. W. and Holroyd, J	. R			_ Nov. 8, 1887
	95.	PHOTOGRAP.	HY.—5. (CAMERAS.	
378,426	Bliss, E. N. and Middleton, J. F.				Feb. 28, 1888
	95.	PHOTOGRAPH	IY.—31. (FALLERIES.	
384,151	Gould, F. B				June 5, 1888
	95.	PHOTOGR 4 PF	IY.—29. 1	Processes.	
372,720	Tueker, A. W. and E. M			•	Nov. 8, 1887
	95, PHOTOGRAPHY.—26, RETOUCHING.				
383,436	Card, G. F				May 29, 1888
	96. COATING	WITH MET	AL.—1. E	LECTRO DEPOSITION.	
367,731 377,487	Thoms, W. A Hayden, E. S	Aug. 2, 1887 Feb. 7, 1888	384,806	White, W. W	June 19, 1888
	96. COATI:	NG WITH ME	TAL.—5.	NICKEL PLATING.	
381,004	Farmer, M. G				Apr. 10, 1888
		101, PRINTING	i.—11. Co	PYING.	
370,683	Carey, A. C				Sept. 27, 1887
		ol. PRINTING.		•	
368,315	Bathriek, L. E				Aug. 16, 1887
	101	. PRINTING.—	-20. HANI	STAMPS.	
380,594	Randall, C. A	Apr. 3, 1888	380,595	Randall, C. A	Apr. 3, 1888
	101.	PRINTING.—4	4. Matri	MAKING.	
378,797	Mergenthaler, O	Feb. 28, 1888	378,798	Mergenthaler, O	Feb. 28, 1888
	101. PRINTING.—37. SURFACES.				
384,586	Norman, W. C			5	June 12, 1888

101. PRINTING.—42. Type-Writing.

	101		TE. LILE.	11 104 1 141 (4)		
No.	NAME,	Date.	No.	NAME.	DATE.	
369,954	McLaughlin, J. F	Sept. 13, 1887	379,406	McLaughlin, J. F	Mar. 13, 1888	
102. PROJECTILES.—1. BLASTING AND FUSES.						
374,640	Sundström, K. J	Dec. 13, 1887	377,851	Gardner, P. G	Feb. 14, 1888	
102. PROJECTILES.—11. Primers.						
384,660	384,660 Zalinski, E. L					
	16	2. PROJECTII	ES.—15.	SHELLS.		
3 84,663	Zalinski, E. L.	·			June 19, 1888	
	102.	PROJECTILES	8. –16. Ѕн	ELL FUSES.		
384,661 384,662	Zalinski, E. LZalinski, E. L		384,664	Zalinski, E. L	June 19, 1888	
102. PROJECTILES.—20. ELECTRIC CARTRIDGES.						
365,842	Monfort, E. A.	July 5, 1887	372,046	Stuart, G	Oct. 25, 1887	
104. RAILWAYS.—4. ELEVATED.						
374.866 379,904	Carr, COehrle, A. C		381,862	Taylor, G. R. and Heckert, W -	Apr. 24, 1888	
	10	04. RAILWAYS	8.—9. Pne	UMATIC.		
365,787 376,862	Bryson, A., jr. and Mudge, H. S. Curtiss, R. M	July 5, 1887 Jan. 24, 1888	379,503	Burton, G. D	Mar. 13, 1888	
		104. RAILWA	YS.—10.	RAILS.		
372,273	Nulty, J. T	Oct. 25, 1887	378,913	Wing, L. J	Mar. 6, 1888	
	- 1	104. RAILWAY	S.—21. Sı	GNALS.		
375,649 380,409	Patten, A. B. and Conner, R. S-Stitzel, F. and Weinedel, C		382,741 384,755	Tisdale, C. DGodding, M. O	May 15, 1888 June 19, 1888	
	104.	RAILWAYS	-25. Swite	CH STANDS.	,	
3 66,306	Cummings, A. G.				July 12, 1887	
	104. RAT	LWAYS.—47. 7	RACTION-	-Underground.		
374,315	Nier, W	Dec. 6, 1887	379,082	Short, S. H	Mar. 6, 1888	
	112. SE	WING MACHI	NES.—7.	Embroidering.		
377,408	Smith, R. T	Feb. 7, 1888	377,409	Smith, R. T.	Feb. 7, 1888	

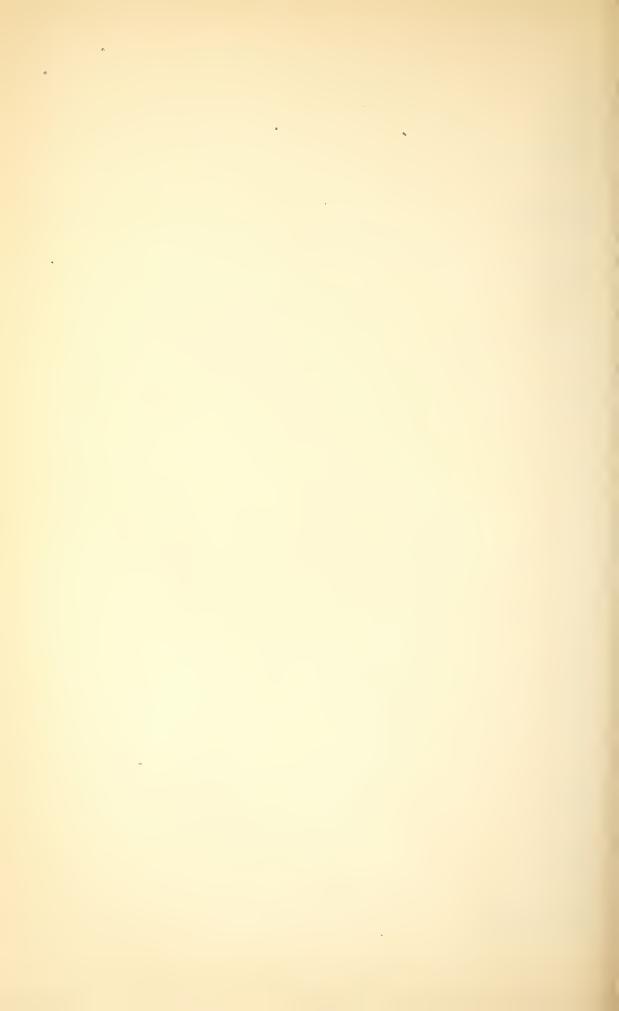
116. SIGNALS.—18. SIGNALS—NAUTICAL.

No.	NAME.	DATE.	No.	NAME.	DATE.	
382,056	Ruggles, D	May 1, 1888	385,016	Spiegel, W. G.	June 26, 1888	
116. SIGNALS—39. BELL-HANGING—PULLS.						
381,539	381,539 Dilley, C. M					
	105. RAII	WAY CARS.—	-28. Cars-	-Steam, Street.		
381,396	1,396 Love, J. C. and Snediker, J. F					
	105. F	RAILWAY CA	RS.—17. I	OCOMOTIVES,	1	
375,346	Field, S. D				Dec. 27, 1887	
	10	05. RAILWAY	CARS.—	19. Passenger.		
378,428	Brill, J. A				Feb. 28, 1888	
	105. RAILWAY CARS.—32. TRUCKS.					
384,505	884,505 Brewer, W. J				June 12, 1888	
	114. S	HIPS.—40. Sur	MARINE A	ND TORPEDO.		
379,991	Shepard, C. D				Mar. 27, 1888	
	119. CA	RE OF LIVE	STOCK.—	-4. Incubators.		
366,599	Muenchinger, G. A				July 12, 1887	
	192.	STEAM BOIL	ERS.—2.	CLEANERS.		
368,655	Currier, H. L				Aug. 23, 1887	
	123. AII	R AND GAS E	NGINES.	—3. Explosive.		
368,678 376,212 377,962	McDougall, S. T Shanck, H. K Smith, R. F	Jan. 10, 1888	379,674 383,775	Bolmer, T. HSintz, C		
,	125	. STONE WOR	KING.—1	10. Drills.	1	
366,184	Phelps, L. J	July 5, 1887	375,390	Sneathen, J. B., Michaels, A. and Michales, M. A	Dec. 27, 1887	
	128. SUR	GERY.—13. Ix	HALERS A	nd Respirators.		
369,247	Huguet, H. A. B				Aug. 30, 1887	
	128	s. surgery.				
376,601					Jan. 17, 1888	
					1	

CLASSIFIED INDEX—ELECTRICITY.

169. FIRE EXTINGUISHERS.—1. CHEMICAL.

No.	NAME.	DATE.	No.	NAME.	DATE.
375,636	Kells, C. E., jr	Dec. 27, 1887	381,459	Atkinson, T	Apr. 17, 1888
134. METAL TUBING AND WIRE.—16. WIRE.					
369,144	Williamson, J. J				Aug. 30, 1887
	137. WATER	DISTRIBUTIO	ON.—30. C	OUPLINGS-VALVED.	'
372,363 Deacon, B. R					Nov. 1, 1887
	140.	. WIRE WORE	XING.—6.	Coiling.	
372,423	Mallett-Gny, F				Nov. 1, 1887
	144. WOO	D WORKING	MACHIN	IES.—2. Boring.	
373,393	Dewing, J. and Bennett, D. F.				Nov. 15, 1887
	149. HIDES, SKI	NS, AND LEA	THER.—	10. Tanning Processes.	
368,745 Aborn, J. W. and Landin, J					Aug. 23, 1387
	150. PACKING AND ST	ORING VESSI	ELS.—116	. METALLIC VESSELS—SPOU	TED.
367,474 Truman, E				Aug. 2, 1887	
159. FIRE ESCAPES AND LADDERS.—15. Escape Ladders—Fixed.					
377,058	Batten, J				Jan. 31, 1888
	181. ACO	USTICS.—3. Tr	ELEPHONE	s—Mechanical.	
365,868 366,319	Shaver, G. F.————————————Hurley, J. P. and Perkins, G. F.	July 5, 1887 July 12, 1887	371,439	Eastman, W. II	Oct. 11, 1887
	181	. ACOUSTICS.	—4. Pнох	TOGRAPHS.	
375,579 380,535 382,414	Tainter, C. SEdison, T. A	Dec. 27, 1887 Apr. 3, 1888 May 8, 1888	382,416 382,419 382,790	Edison, T. A Edison, T. A Berliner, E	May 8, 1888
	182	2. SEWERAGE	.—3. Cons	TRUCTION.	
372,494	Shepherd, C. H				Nov. 1, 1887
	186. STOI	RE SERVICE	-9. VEND	ING APPARATUS.	
372,010	Brunet, A				Oct. 25, 1887
187. ELEVATORS.—3. DUMB WAITERS.					
383,771	383,771 Saunders, A. D				
	188. FLŲID PF	RESSURE RAI	LWAY B	RAKES.—1. ELECTRIC.	
378,657 378,658	Carpenter, J. F	Feb. 28, 1888 Feb. 28, 1888	382,766	Massey, A. P	May 15, 1888
			11		



APPENDIX No. VII.

PART II.

CONSISTING OF A

NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1887, to June 30, 1888, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.



NUMERICAL INDEX

OF

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1887, TO JUNE 30, 1888.

No.	Name.	Class.	Date.
365,776	Bonta, J. W.	Telephones, electric	July 5, 1887
365,777	Bonta, J. W	do	
365,778	Bonta, J. W	do	
365,779	Bonta, J. W.	do	
365,780	Bonta, J. W.	do	
365,781	Bonta, J. W.	do	
365,787	Bryson, A., jr. and Mudge, H. S	Railways, pneumatic	
365,792	Cauderay, J	Meters	
365,842 365,843	Monfort, E. A		w . *
365,868	Shaver, G. F	Telephones, mechanical	
365,905	Brewster, W. F	Thermometers	
365,911	Eckert, W. H. and Seely, J. A.	Telegraphy, fire	
365,935	O'Connell, J. J		
365,978	Edison, T. A	Systems of distribution	
365,982	Field, S. D Heele, C. I	Telegraphy, printing	July 5, 1887
365,994 366,021	Healy, C. L.	Motors.	July 5, 1887 July 5, 1887
366,034	Seiler, C	Batteries, galvanic	July 5, 1887
366,058	Williams, R. E. and Hammer, T. G.	Medical and surgical, body-wear	July 5, 1887
366,124	MeElroy, J. F	Lights, systems and appliances	July 5, 1887
366,154	Chase, H. A	Telegraphy, fire	July 5, 1887
366,164	Gillam, M. M	Medical and surgical, baths	July 5, 1887
366,166	Healy, C. L	Telegraphy, printing	July 5, 1887
366,173 366,174	Kruesi, J	Conductors, underground	July 5, 1887 July 5, 1887
366,176	Maekev, J. C	Thermostats	July 5, 1887
366,178	Mahnken, H. and Healy, C. L.	Telegraph, printing	July 5, 1887
366,184	Phelps, L. J.	Stone-working	July 5, 1887
366,190	Safford, A. G	Telephones, magnetic	July 5, 1887
366,192	Woods, G. T		July 5, 1887
366,195 366,202	Arnold, S. W. and Cranmer, W. C.		July 12, 1887
366,209	Cauderay, J — Duwelius, A. L — Duwelius, A. L	MetersConductors	July 12, 1887 July 12, 1887
366,212	Galvin, J. A		July 12, 1887
366,229	Maiehe, L	Telegraphy, automatic	July 12, 1887
366,263	Silliman, R. F	Insulating materials	July 12, 1887
366,267	Stanley, W., jr	Regulators	July 12, 1887
366,268 366,289	Stanley, W., jrZimmerman, W. P	Meters	July 12, 1887 July 12, 1887
366,292	Arnold, C. R	Lights, systems and appliances.	July 12, 1887
366,305	Cox, H. B	Galvanometers	July 12, 1887
366,306	Cummings, A. G.	Switch-stands	July 12, 1887
366,319	Hurley, J. P. and Perkins, G. F	Telephones, mechanical	July 12, 1887
366,324	Johnson, W. S.	Valve-controllers	July 12, 1887
366,336 366,337	Merritt, H. W	Insulating materialsdo	July 12, 1887 July 12, 1887
366,347	Schmid, A	Induction-coils	July 12, 1887
366,349	Shallenberger, O. B	Regulators	July 12, 1887
366,350	Shallenberger, O. B	Cut-outs, thermal	July 12, 1887
366,352	Thompson, E. P	Lights, incandescent	July 12, 1887
366,353	Thompson, E. P	Filaments and earbons	July 12, 1887
366,361 366,362	Westinghouse, G., jr.	Conductors	July 12, 1887 July 12, 1887
366,374	Westinghouse, G., jr-Byllesby, H. M. and Lange, P	Iuduction-coilsLights, systems and appliances	
366,375	Byllesby, H. M	Induction-coils	July 12, 1887
366,376	Byllesby, H. M. and Shallenberger, O. B	Systems of distribution	July 12, 1887
366,400	Keating, A. S.	Kevs	July 12, 1887
366,407	Lange, P.	Cut-outs, meehanical	July 12, 1887
366,408 366,409	Lange, P		July 12, 1887
090,403	Lange, P.	Carvanometers	741) 12, 1007

No.	NAME.	Class.	DATE.
0.00 47.0	I D LOLU L O.B	(0.3	T1 - 10 1007
366,410	Lange, P. and Shallenberger, O. B Chenoweth, A. C	Galvanometers Conductors, underground	July 12, 1887 July 12, 1887
366,457 366,460	Collins, C	Cups	July 12, 1887
366,513	Scales, W. S	Clocks, electrie	July 12, 1887
366,523	Stanley, W., jr-	Systems of distribution	July 12, 1887
366,544	Westinghouse, G., jr.	Induction-coils	July 12, 1887 July 12, 1887
366,599 366,603	Muenchinger, G. A.——————————————————————————————————		July 12, 1887
366,606	Pope, F. L., Byllesby, H. M. and Lange, P.	Lights, sockets and keys	July 12, 1887
366,613	Waterhouse, A. G.	Lights, are, gravity feed, frictional	July 12, 1887
366,614	Waterhouse, A. G.		
366,628 366,634	Healy, C. L Macrae, R. and Tavener, C. F	Telegraphy, printing	July 12, 1887 July 12, 1887
366,654	Daby, J. M. and Edmester, J. L.		July 19, 1887
366,660	Gardner, H. R	Applications, general	July 19, 1887
366,673	Lemp, H. and Wightman, M. J.		July 19, 1887
366,695 366,717	Faure, C. A	Telegraphy, quadruplex Batteries, galvanic	July 19, 1887 July 19, 1887
366,777	Judd, C. B	Medical and surgical, body-wear	July 19, 1887
366,811	Bolgiano, G. C.	Conductors, underground	July 19, 1887
366,824	Forbes, G	Galvanometers	July 19, 1887
366,898	Tatham, J		July 19, 1887
366,938 366,941	Doubrara, S Easton, J. W		July 19, 1887 July 19, 1887
366,970	Melbourne, W. A		July 19, 1887
366,994	Bradford, T. C.	Telephones, details	July 19, 1887
367,002		Lights, arc. gravity feed, gear	July 19, 1887
367,003 367,004		Telephones, detailsdo	July 19, 1887 July 19, 1887
367,042	lrwin, J. H		
367,069		Locomotion	
367,080		Magneto-electric	
367,081	Wightman, M. J. and Lemp, H.	Lights, arc, gravity feed	July 26, 1887
367,082 367,164	Ruger, H. K	Cut-outs, mechanical	
367,205	Frost, J. W		
367,219	McCoy, J. A	Telegraphy, automatic	July 26, 1887
367,241	Schleicher, A. W		
367,270 367,294	Colman, F. B		
367,323	Shaffer, C. H		
367,332	Baxter, C		
367,341		Medical and surgical, baths	
367,348 367,350	Mast, L. L		
367,359	Brewer, H. J		
367,402	lrwin, J. II	Lights, systems and appliances	Aug. 2, 1887
367,422	Mellett, L	Applications general	Aug. 2, 1887
367,435	O'Brien, D	Lightning-rods	Aug. 2, 1887
367,451 367,469	Thomson E	Batteries, galvanic	Aug. 2, 1307
367,470		Regulators	
367,471	Thomson, E	Magneto-electrie	Aug. 2, 1887
367,474	Trumau, E	Spouted metallie vessels	Aug. 2, 1887
367,475 367,523	Honoh, B. F.	Locomotion Burglar alarms	Aug. 2, 1887
367,541	Mellet, L. and Prince, J	- Applications, general	Aug. 2, 1887
367,548	Reed, T. S.	Conductors	Aug. 2, 1887
367,568	Wightman, M. J. and Lemp, II	Lights, are, gravity feed, gear	Aug. 2, 1887
367,598 367,627		Railway signalsCar-brakes	
367,630	Hochhausen, W.	Batteries, secondary	Aug. 2, 1887
367,650	McLaughlin, J. F	- Telegraphy, printing	Aug. 2, 1887
367,651	Meston, A. W	- Motors	Aug. 2, 1887
367,662	Reams, A. J.	Time-checks	Aug. 2, 1887
367,663 367,670	Scribner, C. E	Clocks, electrie	Aug. 2, 1887 Aug. 2, 1887
367,685	Vau Depoele, C. J	Car-brakes	Ang. 2, 1887
367,705	D'Humy, P. R. de F	Batteries, galvanic	Aug. 2, 1887
367,708	Dudley, P. H	Recorders	Aug. 2, 1887
367,720 367,730	Mahnken, H Seely, J. A		
367,731	Thoms, W. A		
367,734	Widdicombe, R. H.	Conductors	Aug. 2, 1887
367,754	Goodridge, W. M	Telephones, systems	Aug. 2, 1887
367,768 367,841	Parking G. F. and Hurlay I. P.	Conductors, underground	Aug. 2, 1887
001,041	Tornino, O. T. and Hurrey, U. I	- 18miting devices	1 11ug. 0, 1001

No.	Name.	CLASS.	DATE.
90= 000	Til E	Marie Control	A 0 100F
367,866 367,898	Thomson, E Drawbaugh, D	Magneto-electric	
367,901	Freeman, J. P.	Cut-outs, electro-magnetic	
367,925	Poole, W. C. and Schnepf, J.	Annunciators	Aug. 9, 1887
367,931	Runels, C	Counectors	Aug. 9, 1887
367,934 367,956	Shallenberger, O. B	Magneto-electric Batteries, galvanic	Aug. 9, 1887 Aug. 9, 1887
367,960	Clarke, C. L	Clocks, electric	
368,066	Brown, I. H	Railway signals	
368,088	Hinds, C. H	Friction generators	
368,099 368,149	Maquay, S. W	Batteries, galvanic	Aug. 9, 1887
368,190	Higgins, P. J.	ConductorsBatteries, galvanic	Aug. 9, 1887 Aug. 16, 1887
368,191	Case, W. E.	do	Aug. 16, 1887
368,195	Dieckmann, G. F	Piano actions	
368,212	Hornaday, T. B.	Magnetic locks and bolts	Aug. 16, 1887
368,217 368,221	Linville, J. H McDaniel, C. W	Telegraphy, printingCut-outs, mechanical	Aug. 16, 1887 Aug. 16, 1887
36S,265	Woods, G. T	Car-brakes	Aug. 16, 1887
368,284	Fletcher, J. R	Insulators	Aug. 16, 1887
368,315	Bathrick, L. E	Printing, delivering	Aug. 16, 1887
368,321	Bowe, P	Connectors	Aug. 16, 1887
368,336 368,342	Hathaway, A. E	Alarms, burglar	Aug. 16, 1887 Aug. 16, 1887
368,405	Marvin, H. N	Motors	
368,406	Marvin, H. N	do	Aug. 16, 1887
368,411	McLaughlin, J. F.	Telegraphy, printing	Aug. 16, 1887
368,445	Baldwin, C. W	Applications, tools and machines	Aug. 16, 1887
368,450 368,512	Bloom, W. H	Transmitters Telegraphy, railway car	
368,541	Mahnken, H	Telegraphy, printing	
368,546	Owen, A	Medical and surgical, body-wear-	Aug. 16, 1887
368,576	Euphrat, F.	Locomotion	
368,596	Knight, W. H.	Rheostats	Aug. 23, 1887
368,608 368,628	Peyrusson, A. E Todd, H. L	Batteries, secondary	
368,650	Carpenter, J. F	Connectors	
368,654	Crosby, E. H	do	
368,655	Currier, H. L	Cleaners	
368,662 368,674	Foster, B. R. Kent, J. W. and Orr, R.	Grain metersValve-controllers	Aug. 23, 1887 Aug. 23, 1887
368,678	McDougall, S. T	Explosives	Aug. 23, 1887
368,692	Sheehy, R. J	Telegraphy, printing	
368,745	Aborn, J. W. and Landin, J.	Tauniug processes	Aug. 23, 1887
368,764	Hammer, W. J		
368,765 368,766	Hammer, W. J.		
368,796	Tronvé, G		
368,804	Baker, C. D	Rheostats	Aug. 23, 1887
368,806	Bryant, T. W.	Batteries, galvanic	Aug. 23, 1887
368,809		Bells	
368,857 368,858		Lights, iucandescent Telegraphy, printing	
368,859	Sheehy, R. J	do	Aug. 23, 1887
368,907	Burgher, C	Telegraphy, fire	Aug. 23, 1887
368,931		Telegraphy, multiplex	
368,948 368,955		Dental instruments	
368,987	Lacey, F. H	Conductors	
369,034	Seely, J. A	Batteries, galvanic	Aug. 30, 1887
369.036	Sperry, E. A	Lightning-arresters	Aug. 30, 1887
369,091 369,121	Bernstein, A.	Lights, filaments and carbons	
369,121	Patterson, W. R	Conductors	Aug. 30, 1887 Aug. 30, 1887
369,144	Williamson, J. J.	Wire	
369,194	Loomis, O. P	Lights, arc, gravity feed, gear	Aug. 30, 1887
369,219	Woolley, L. G	Batteries, thermal	Aug. 30, 1887
369,238	Emminger, D. P.	Unbelow and requiretors	Aug. 30, 1887
369,247 369,256		Inhalers and respirators Telephones, magnetic	Aug. 30, 1887
369,259	Patterson, W. R		Aug. 30, 1887
369,267		Lights, filaments and carbons	Aug. 30, 1887
369,280	Edison, T. A	Systems of distribution	Aug. 30, 1887
369,320	Dalzell, J. H	Conductors, lead-covered	Sept. 6, 1887
369,349 369,372	Turner T G	Lights, arc, gravity feed, frictional Conductors, lead-covered	Sept. 6, 1887 Sept. 6, 1887
369,376	Watkins, F. C	Telephones, electric	
0,010			1 -,

369,378 W2 369,379 369,386 369,384 Cas 369,436 Ed 369,436 Ed 369,438 Ed 369,441 Ed 369,442 Ed 369,447 Gd 369,568 Str 369,568 Str 369,568 Str 369,595 Da 369,680 M2 369,680 M3 369,681 M3 369,861 M3 369,864 M3 369,865 Th 369,769 M3 369,801 M3 36	atkins, F. C atkins, F. C atkins, F. C atkins, F. C mybell, H. F ckemeyer, R nckelew, A. H epuy, A. B lison, T. A	Magneto-electric Heaters Cut-outs, electro-magnetie Systems of distribution do	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,378 W2 369,379 369,386 369,384 Cas 369,436 Ed 369,436 Ed 369,438 Ed 369,441 Ed 369,442 Ed 369,447 Gd 369,568 Str 369,568 Str 369,568 Str 369,595 Da 369,680 M2 369,680 M3 369,681 M3 369,861 M3 369,864 M3 369,865 Th 369,769 M3 369,801 M3 36	atkins, F. C atkins, F. C atkins, F. C atkins, F. C mybell, H. F ckemeyer, R nckelew, A. H epuy, A. B lison, T. A	dodododododo	Sept. 6, 1887 Sept. 13, 1887
369,386 Ba 369,384 Car 369,440 Ed 369,432 Bu 369,436 De 369,438 Ed 369,441 Ed 369,441 Ed 369,446 Le 369,456 Le 399,505 Dr 369,561 Sh 369,565 Str 369,592 Da 369,592 Da 369,595 Di 369,595 Di 369,664 Th 369,665 Th 369,665 Th 369,665 Th 369,665 Th 369,665 Th 369,769 Br 369,793 Ja 369,801 Ma 369	ard, E. F. mpbell, H. F. ckemeyer, R. nckelew, A. H. ppuy, A. B. lison, T. A. lison, T. A. lison, T. A. lison, T. A. ceenfield, E. T. comp, H. cescher, L. dort, S. H. reet, W. W. cood, W. B. alzell, J. H. dizell, J. H. dizell, J. H. dizell, J. H. etetzman, A. S. and Cressey, G. olyneux, B. S. auss, D. J. ace, E. nompson, E. P. nompson, E. P. nompson, E. P. oolley, A. G. nomson, E. reewer, H. J. tques, J. T. arkland, W. H.	Clocks, electric Conductors, anti-inductive Magneto-electric Heaters Cut-outs, electro-magnetie Systems of distribution do Lights, arc, gravity feed, frictional Batteries, galvanic Batteries, secondary Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covered do Capable Registers Recorders Lights, arc Regulators Lights, share Regulators Lights, share Regulators Lights, share Regulators Lights, filaments and carbons Lights, filaments and carbons Lights, filaments and carbons Regulators Salvanic Conductors	Sept. 6, 1887 Sept. 13, 1887
369,394 Can 369,490 Eic 369,432 Bu 369,441 Ed 369,441 Ed 369,447 Gr 369,565 Sh 369,565 Sh 369,568 Str 369,564 Can 369,595 Da 369,595 Da 369,595 Da 369,595 Da 369,594 Can 369,665 Can 369,666 Can 369,868 Can 369,869 Can 369,869 Can 369,869 Can 369,966 Can 369,967 Can 369,967 Can 369,968 Ca	mpbell, H. F ckemeyer, R nckelew, A. H pluy, A. B lison, T. A lison, T. A lison, T. A lison, T. A neenfield, E. T emp, H rescher, L lort, S. H lort, S. H lizell, J. T lompson, E. P loolley, A. G lomson, E lizewer, H. J lizell,	Conductors, anti-inductive Magneto-electrie Heaters Cut-outs, electro-magnetie Systems of distribution dododo Insulators Lights, are, gravity feed, frictional Batteries, galvanic Batteries, garvity feed, frictional Telegraphy, printing Conductors, lead-covereddodo Registers Recorders Lights, arc Regulators Lights, ilaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Regulators Regulators Regulators Annunciators Regulators	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,400 Eid 369,432 Bu 369,436 De 369,441 Ed 369,442 Ed 369,447 Gr 369,456 Le 399,505 Dr 369,561 Sh 369,568 Str 369,592 Da 369,593 Da 369,594 Da 369,696 Th 369,665 Th 369,666 Th 369,666 Th 369,666 Th 369,667 We 369,789 Da 369,801 Ma 369,808 No 369,801 Ma 369	ckemeyer, R nckelew, A, H epuy, A, B epuy, A, B elison, T, A lison, T, A lison, T, A lison, T, A recenfield, E, T emp, H rescher, L lort, S, H reet, W, W lood, W, B lazell, J, H luzell, J, T loompson, E, P loompso	Magneto-electric Heaters Cut-outs, electro-magnetie Systems of distribution	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,432 Bu 369,436 De 369,439 Ed 369,441 Ed 369,442 Ed 369,447 Gr 369,565 Dr 369,561 Sh 369,561 Sh 369,568 Str 369,593 Da 369,593 Da 369,595 Dr 369,664 Th 369,665 Th 369,665 Th 369,666 Th 369,667 Wr 369,769 Br 369,801 Ma	nckelew, A, H ppuy, A, B lison, T, A liso	Heaters—Cut-outs, electro-magnetie—Systems of distribution——do——do——do——do——do——lights, arc, gravity feed, frictional—Batteries, galvanic—Batteries, secondary—Lights, arc, gravity feed, frictional—Telegraphy, printing—Conductors, lead-covered——do——do——do——do——Eghts, arc—Regulators—Lights, arc—Regulators—Lights, systems and carbons—Lights, systems and appliances—Lights, filaments and carbons—Lights, filaments and carbons—Lights, filaments and carbons—Regulators—Regulato	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,436 De 369,439 Be 369,441 Ed 369,442 Ed 369,443 Ed 369,456 Le 389,505 Dr 369,561 Sh 369,568 Str 369,577 We 369,593 Da 369,594 Da 369,595 Di 369,591 Di 369,592 Da 369,593 Da 369,594 Da 369,595 Di 369,591 Di 369,608 Ma 369,655 Pl: 369,664 Th 369,665 Th 369,769 Br 369,801 Mc 369,801 Mc 369,801 Mc 369,801 Mc 369,803 Mc 369,804 Mc 369,805 Mc 369,806 Mc	epuy, A. B. lison, T. A lison lison, T. A	Cut-outs, electro-magnetie Systems of distribution do do do Insulators Lights, arc, gravity feed, frictional Batteries, secondary Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covered do Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Regulators Lights, filaments and carbons Annunciators Regulators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,439 Ed 369,441 Ed 369,441 Ed 369,442 Ed 369,443 Ed 369,447 Gr 369,456 Le 399,505 Dr 369,561 Sh 369,568 Str 369,577 We 369,592 Da 369,593 Da 369,594 Da 369,695 Mc 369,695 Mc 369,665 Th 369,666 Th 369,666 Th 369,666 Th 369,769 Br 369,793 Ja 369,793 Ja 369,801 Mc 369,808 Nc 369,810 Pa 369,810 Ra 369,801 Mc 369,808 Nc 369,810 Ra 369,801 Mc 369,808 Nc 369,810 Ra 369,801 Mc 369,808 Nc 369,915 Br 369,915 Br 369,915 Ch	fison, T. A lison, T. A lison	Systems of distribution do do do do lnsulators Lights, arc, gravity feed, frictional Batteries, galvanic Batteries, secondary Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covered do do Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, filaments and carbons Lights, filaments and carbons Regilators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,441 Ed 369,442 Ed 369,442 Ed 369,443 Gr 369,456 Le 399,505 Dr 369,561 Str 369,568 Str 369,592 Da 369,593 Da 369,594 Mc 369,655 Th 369,664 Th 369,655 Th 369,666 Th 369,754 Th 369,769 Br 369,801 Ma 369,915 Ma 369,915 Fa 369,915 Fa 370,000 Ma 370,000 M	Rison, T. A Ilison, T. A Ilison, T. A Ilison, T. A Reenfield, E. T Reenfield,	do do do do lnsulators Lights, are, gravity feed, frictional Batteries, galvanic Batteries, secondary Lights, are, gravity feed, frictional Telegraphy, printing Conductors, lead-covered do do Registers Recorders Lights, are Regulators Lights, systems and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,442 Ed 369,443 Gd 369,447 Gr 369,456 Le 399,505 Dr 369,561 Sh 369,568 Sh 369,592 Da 369,595 Dr 369,595 Dr 369,696 Ha 369,655 Th 369,666 Th 369,666 Th 369,666 Th 369,667 We 369,769 Br 369,808 Nc 369,801 Ma 369,801 Ma 369,808 Nc 369,801 Ma 369,808 Nc 369,801 Ma 369,901 Ma 369,801 Ma	lison, T. A lison, T. A lison, T. A recenfield, E. T remp, H rescher, L rescher, L rect, W. W rect, W. W rect, W. B lizell, J. H relizell, J. H retzman, A. S. and Cressey, G retzman, A.	do	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,443 Ed 369,447 Cr 369,456 Gr 369,561 Sh 369,561 Sh 369,567 We 369,593 Da 369,594 Da 369,595 Di 369,695 Di 369,895 Di 369,898 Di 369,995 Di	reenfield, E. T emp, H rescher, L root, S. H reet, W. W rood, W. B alzell, J. H alzell, J. H dizell, J. H etetzman, A. S. and Cressey, G olyneux, B. S auss, D. J ace, E nompson, E. P nompson, E. P roolley, A. G nomson, E rewer, H. J tques, J. T arkland, W. H	Insulators Lights, arc, gravity feed, frictional Batteries, galvanic Lights, arc, gravity feed, frictional Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covereddodododsequators Lights, arc Regulators Lights, filaments and carbons Lights, filaments and carbons Lights, filaments and carbons Annunciators Regulators Regulators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,456 Le. 399,505 Dr. 369,561 St. 369,577 We 369,592 Da 369,593 Da 369,595 Dr. 369,665 Th 369,754 Th 369,808 No. 369,810 Mar. 369,809 Mar. 369,915 Mar. 369,929 Fa 369,954 Mar. 369,929 Fa 369,954 Mar. 369,929 Fa 370,000 War. 370,000 Ca 370,000 The 370,	emp, H— rescher, L lort, S. H— reet, W. W— lood, W. B— lazell, J. H— lazell, J. H— letzman, A. S. and Cressey, G loyneux, B. S— lompson, E. P— lompson, E. P— lompson, E. P— londley, A. G— lomson, E. P— londley, A. G— londley, A. G— londley, H. J— lorewer, H. J—	Lights, are, gravity feed, frictional Batteries, galvanic Batteries, secondary Lights, are, gravity feed, frictional Telegraphy, printing Conductors, lead-covereddododoRegisters Recorders Lights, are Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
399,505 Dr	rescher, L lort, S. H reet, W. W lood, W. B lazell, J. H lazell, J. H luzell, J. T	Batteries, galvanic Batteries, secondary Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covered do Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Batteries, galvanic Conductors Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,561 Sh. 369,568 Str 369,597 Da 369,594 Da 369,595 Da 369,595 Da 369,664 Th 369,665 Th 369,666 Th 369,769 Str 369,801 Ma 369,901 Ma 369,900 Fa 36	lort, S. H— reet, W. W— lood, W. B— lalzell, J. H— lalzell, J. H— letzman, A. S. and Cressey, G— lolyneux, B. S— lompson, E. P— lompson, E. P	Batteries, secondary Lights, are, gravity feed, frictional Telegraphy, printing Conductors, lead-covereddodoRegisters Recorders Lights, are Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Regulators	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,568 Str 369,577 Wc 869,592 Da 369,593 Da 369,594 Da 369,595 Di 369,668 Mc 369,665 Th 369,665 Th 369,665 Th 369,665 Th 369,769 Mc 369,779 Ja 369,780 Mc 369,801 Mc 369,901 Fr 369,901 Fr 369,901 Fr 369,901 Mc 369,901 Fr 369,901 Mc 369,901 Mc 369,901 Fr 369,901 Mc 369,901 Mc 369,9	reet, W. Wood, W. Balzell, J. Halzell, J.	Lights, arc, gravity feed, frictional Telegraphy, printing Conductors, lead-covereddododo Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Regulators Regulators Lights, galawanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,577 We 69,592 Da 369,593 Da 369,594 Da 369,695 Di 369,666 Th 369,665 Th 369,665 Th 369,666 September 20,500 The september 20,500 Th	lood, W. B. lazell, J. H. lazell, J. H. lazell, J. H. lazell, J. H. letzman, A. S. and Cressey, G. letzman, A. S. and Cresse	Telegraphy, printing Conductors, lead-covereddodoRegisters Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Bights, filaments and carbons Lights, filaments and carbons Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
\$69,592 Da \$69,593 Da \$69,594 Da \$69,594 Da \$69,695 Da \$69,698 Mc \$69,655 Pl: \$69,655 Pl: \$69,656 Th \$69,656 Th \$69,672 Wc \$69,672 Wc \$69,673 Br \$69,673 Br \$69,774 Br \$69,778 Br \$69,778 Br \$69,808 Nc \$69,800 Mc \$60,800 Mc \$60,900 Mc \$60,000 M	nlzell, J. H nlzel	Conductors, lead-covered dodoRegistersRecorders	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,593 Da 369,594 Da 369,595 Ma 369,698 Ma 369,664 Ha 369,665 Th 369,666 Th 369,666 Th 369,769 Ma 369,808 Ma 369,801 Ma 369,801 Ma 369,808 Ma 369,813 Ra 369,813 Ra 369,810 Ra 369,915 Ra 369,810 Ra	alzell, J. H ulzell, J. H ulzell, J. H etzman, A. S. and Cressey, G outpreux, B. S auss, D. J ace, E tompson, E. P tompson, E. P toolley, A. G tomson, E tom	dodo Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Regulators Regulators Regulators Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,594 Da 369,595 Di 369,608 Mc 369,640 Ha 369,655 Pl: 369,665 Th 369,665 Th 369,772 Wc 369,773 Ja 369,801 Mc 369,801 Mc 369,801 Mc 369,813 Ra 369,813 Ra 369,813 Ra 369,810 Ca 369,810 Ca 369,915 Ga	nlzell, J. H letzman, A. S. and Cressey, G olyneux, B. S auss, D. J ace, E lompson, E. P lompson, E. T lompson, E.	do- Registers Recorders Lights, arc Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,595 Dio 369,696 Md 369,665 Th 369,665 Th 369,665 Th 369,769 Br 369,769 Md 369,808 Md 369,808 Md 369,808 Md 369,808 Md 369,801 Md 369,808 Md 369,801 Md 369,901 Th 369,	tetzman, A. S. and Cressey, Golyneux, B. S. auss, D. J. ace, E. tompson, E. P. to	Registers Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Regulators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,668 Mag 369,640 Ha 369,655 Th 369,665 Th 369,666 Th 369,754 Th 369,769 Br 369,769 Br 369,808 Mag 369,810 Ag 369,915 Ag 369,915 Ag 369,915 Ag 369,915 Ag 369,915 Ag 370,000 A	olyneux, B. S. auss, D. J. ace, E. nompson, E. P. nompson, E. P. oolley, A. G. nomson, E. rewer, H. J. tques, J. T. arkland, W. H.	Recorders Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,640 Ha 369,655 Pli 369,664 Th 369,665 Th 369,666 Th 369,769 Br 369,769 Br 369,801 Ma 369,808 Nc 369,810 Ra 369,810 Ra 369,880 St 369,810 Ra 369,810 Ra 369,810 Ra 369,810 Ra 369,810 Ra 369,810 La 369,810 La 369,915 Fa 370,000 Ca 10,866 Li 370,052 Fe 370,124 Ed 370,125 Ed	auss, D. J ace, E ace, E nompson, E. P nompson, E. P nompson, E. P oolley, A. G nomson, E rewer, H. J arkland, W. H	Lights, arc Regulators Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,655 Pls 369,664 Th 369,665 Th 369,666 Th 369,769 Br 369,801 Ma 369,808 No 369,810 Ma 369,810 Fla 369,915 Ma 369,813 M	ace, E nompson, E. P nompson, E. P nompson, E. P oolley, A. G nomson, E rewer, H. J tques, J. T arkland, W. H	Lights, filaments and carbons Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,665 Th 369,666 W 369,762 W 369,763 J 369,769 J 369,783 J 369,801 M 369,808 Nc 369,810 Pa 369,910 Pa 369,810 Pa 369,81	nompson, E. P nompson, E. P 'oolley, A. G nomson, E	Lights, systems and appliances Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,666 Th 369,672 W Th 369,769 Br 369,783 Jac 369,801 M 369,808 Pa 369,810 Ra 369,813 Ra 369,880 Str 369,880 Str 369,915 Br 369,915 Br 369,915 Br 369,915 Ca 369,929 Fa 369,954 M 370,000 Je 370,000 Je 370,000 Je 370,000 Je 370,0124 Ed 370,125 Ed 370,125 Ed	nomipson, E. P	Lights, filaments and carbons Annunciators Regulators Batteries, galvanic Conductors	Sept. 6, 1887 Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,672 We 369,754 Th 369,769 Me 369,801 Me 369,810 Ra 369,810 Ra 369,867 Me 369,810 Str. 369,915 Str. 370,000 Co. 10,866 Str. 370,052 Fe 370,124 E 370,125 E	oolley, Á. G	Annunciators	Sept. 6, 1887 Sept. 13, 1887 Sept. 13, 1887
369,754 Th 369,769 Jr 369,793 Ja 369,801 Mi 369,808 Nc 369,813 Ra 369,887 Mi 369,880 Stc 369,889 Stc 369,915 Ca 369,929 Fa 369,954 Mi 369,954 Mi 369,954 Mi 370,000 Co 10,866 370,052 Fe 370,124 Ec 370,125 Ec	nomson, E	Regulators	Sept. 13, 1887 Sept. 13, 1887
369,769 Br 369,793 Ja 369,801 Nc 369,810 Pa 369,813 Ra 369,880 Mr 369,880 St 369,880 St 369,880 St 369,917 Ca 369,929 Fa 369,929 Fa 369,954 Me 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	rewer, H. J lques, J. T arkland, W. H	Batteries, galvanicConductors	Sept. 13, 1887
369,793 Ja 369,801 Ma 369,808 Ma 369,810 Pa 369,813 Ra 369,867 Ma 369,880 Sto 369,915 Br 369,917 Ca 369,929 Fa 369,954 Ma 369,954 Ma 369,954 Ma 370,007 Ca 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	arkland, W. H	Conductors	G 10 100T
369,801 M. 369,808 Ne 369,810 Pa 369,813 Ra 369,867 M. 369,880 St 369,915 Br 369,915 Br 369,929 Fa 369,954 M. 370,007 Ca 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	arkland, W. H	Valve-controllers	Sept. 13, 1887
369,810 Pa 369,813 Ra 369,867 Ph 369,889 Sto 369,915 Br 369,917 Ca 369,954 Mo 369,989 Je 370,000 W 370,052 Fa 370,123 Ec 370,124 Ec 370,125 Ec	oyes, J. G		Sept. 13, 1887
369,813 Ra 369,867 Mi 369,880 Sto 369,915 Br 369,917 Ca 369,929 Fa 369,954 Mi 369,954 Mi 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec		Bells	Sept. 13, 1887
369,867 Ma 369,880 Ph 369,889 Br 369,915 Br 369,917 Ca 369,929 Fa 369,954 Ma 370,000 W 370,007 Ca 10,866 Li 370,052 Fe 370,123 Ea 370,124 Ea 370,125 Ea	atten, F. J		
369,880 Ph 369,889 Str 369,915 Br 369,917 Ca 369,929 Fa 369,954 Mo 370,000 We 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	ader, G	Conductors, underground	
369,889 Stc 369,915 Gr 369,917 Cr 369,929 Fa 369,954 Mo 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	arsh, E. A	Engraving machines	
369,915 Br 369,917 Ca 369,929 Fa 369,954 Md 369,989 Je 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	helps, L. J	Telegraphy, railway car	
369,917 Ca 369,929 Fa 369,954 Md 369,989 Je 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ed 370,124 Ed 370,125 Ed	oddard, N. Frown, W	Cut-outs, thermal Lightning-rods	
369,929 Fa 369,954 Mc 369,989 Wc 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	ard, G. F	Car-brakes	Sept. 13, 1887
369,954 Me 369,989 Je 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ec 370,124 Ec 370,125 Ec	arrar, J. H	Railway signals	Sept. 13, 1887
369.989 Je 370,000 W 370,007 Co 10,866 Li 370,052 Fe 370,123 Ed 370,124 Ed 370,125 Ed	eLaughlin, J. F.	Type-writing	
370,007 Co 10,866 Li 370,052 Fe 370,123 Ed 370,124 Ed 370,125 Ed	ensen, H. P. F., Webb, B. W. and Jensen, J.	Bells	Sept. 13, 1887
10,866 Li. 370,052 Fe 370,123 Ed 370,124 Ed 370,125 Ed	heeler, S. S.	Motors	Sept. 13, 1887
370,052 Fe 370,123 Ed 370,124 Ed 370,125 Ed	onnelly, W. A	Valve-controllers	
370,123 Ed 370,124 Ed 370,125 Ed	ister, J. T(Reis, of 347,247)	Lights, filaments and carbons	Sept. 13, 1887
370,124 Ed 370,125 Ed	erguson, A. C	Lights, systems and appliances	
370,125 Ed	dison, T. A	Meters Lights, filaments and carbons	
	dison, T. A	Transmission of power	
370,126 Ed	dison, T. A	do	
370,127 Ed	dison, T. A	do	Sept. 20, 1887
370,128 Ed	dison, T. A	do	Sept. 20, 1887
370,129 Ed	dison, T. A	do	Sept. 20, 1887
370,130 Ed 370,131 Ed	dison, T. A	do	Sept. 20, 1887
	dison, T. A		
	dison, T. A	Circuits and systems Batteries, secondary	Sept. 20, 1887
370,193 Je	ermain, S. P.	Telephones, supports	Sept. 20, 1887
	llison, M. H		
370,243 Cl	hase, N. F	Railway signals	Sept. 20, 1887
370,282 Re	eis, E. E	Heaters	Sept. 20, 1887
370,283 Re	eis, E. E	Locomotion	Sept. 20, 1887
	Jatkins, F. C		
	landers, B S		
	heehy, R. Jirmingham, D. W	1 0 1 -/1 0;	
	kinner. J. J		
	kinner, J. J		
		Systems of distribution	Sept. 27, 1887
	VIVVI, 1 : 11		
370,477 H		Telephones, magnetie	Sept. 27, 1887
370,528 Bo	eakle, J. B. and Steuart, A	Conductors	Sept. 27, 1887
370,572 TI	'eakle, J. B. and Steuart, A layes, H. V orel, F	Conductors	Sept. 27, 1887
370,573 Tl 370,575 Va	eakle, J. B. and Steuart, A	Lights, arc	O . OF -00F

S70,085 Carpenter J. F. Connectors Sept. 27, 188 S70,083 Field, S. D. Telegraphy, printing Sept. 27, 188 S70,744 Lahnoyer, W. Magneto-electric Oct. 4, 188 S70,744 Lahnoyer, W. Magneto-electric Oct. 4, 188 S70,851 Terrell, J. P. Epils Oct. 4, 188 S70,851 Berghansen, A. Teleghones, details Oct. 4, 188 S70,851 Berghansen, A. Teleghones, details Oct. 4, 188 S70,853 Berghansen, A. Teleghones, details Oct. 4, 188 S70,853 Berghansen, A. Teleghones, details Oct. 4, 188 S70,853 Berghansen, A. Telegraphy, fire Oct. 4, 188 S70,853 Sept. A. Teleghones, details Oct. 4, 188 S70,953 Sept. A. Teleghones, details Oct. 4, 188 S70,953 Sept. A. Teleghones, details Oct. 4, 188 S70,953 Sept. A. Teleghones, details Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and systems Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still and early one Oct. 4, 188 S70,959 Thompson, E. P. Lights, still				
370,005 Van Rysselberghe, F.	No.	Name.	Class.	DATE.
370,005 Van Rysselberghe, F.	370.576	Van Rysselberghe F	Telegraphy reed	Sept. 27, 1887
Stock		Van Rysselberghe, F		
Field, S. D.		Carpenter, J. F.		
370,929 Lahmeyer, W		Carey, A. C		
S70,881 Tirrell J. P. Bells September Det A 188 September Se		Lahmeyer W		
S70,831 Tirrell, J. P. Bells		MeGowen, J. J		
S70,851 Berghansen, A	370,831	Tirrell, J. P.	Bells	Oct. 4, 1887
S70,881 Selden, C. Clebraphy, fire. Oct. 4, 188 S70,898 Selden, C. Clebraphy, fire. Oct. 4, 188 S70,898 Selden, C. Clebraphy, fire. Oct. 4, 188 S70,898 Selden, C. Clebraphy, Fire. Oct. 4, 188 S70,995 Le Vin, G. W. Conductors, underground. Oct. 4, 188 S70,995 Le Vin, G. W. Conductors, underground. Oct. 4, 188 S70,995 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,995 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,995 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,995 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S70,999 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and earbons. Oct. 4, 188 S71,000 Thompson, E. P. Lights, lifaments and life life life life life life life life				
370,888 Selden, C. Carcina and systems Oct. 4, 188				
370,988 Selden, C. Gircuits and systems		Sehlesinger, W. M		
370,975 Le Vin, G. W. Conductors, underground Oct. 4, 188 370,979 Thompson, E. P. Lights, filaments and carbons Oct. 4, 188 370,993 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,994 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,995 Thompson, E. P. Lights, filaments and carbons Oct. 4, 188 370,996 Thompson, E. P. Lights, filaments and carbons Oct. 4, 188 370,996 Thompson, E. P. Lights, filaments and carbons Oct. 4, 188 370,997 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,997 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,998 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,999 Thompson, E. P. Lights, incandescent Oct. 4, 188 370,999 Thompson, E. P. Lights, incandescent Oct. 4, 188 371,092 Thompson, E. P. Lights, incandescent Oct. 4, 188 371,092 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,092 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Thompson, E. P. Lights, systems and appliances Oct. 4, 188 371,191 Oct. 4, 188 Oct.		Selden, C		
370,993 Shehy, R. J.			Time alarms	Oct. 4, 1887
370,992 Thompson, E. P.				
		Thompson E P	Lights, filaments and earbons	
370,999 Thompson, E. P		Thompson, E. P	Lights, incandescent	
370,996 Thompson, E. P. Lights, incandescent. Oct. 4, 18		Thompson, E. P	do	Oct. 4, 1887
370,999 Thompson, E. P		Thompson, E. P	Lights, filaments and carbons	Oct. 4, 1887
370,999 Thompson, E. P.	,	Thompson, E. P.	do	Oct. 4, 1887
		Thompson, E. P	Lights, filaments and carbons	Oct. 4, 1887
371,000 Thompson, E. P.		Thompson, E. P.	Lights, incandescent	Oct. 4, 1887
371,002 Thompson, E. P.		Thompson, E. P	Lights, filaments and earbons	Oct. 4, 1887
371,010		Thompson, E. P	do	Oct. 4, 1887
371,121 Wallace, T.		Thompson, E. P	Lights everage and appliances	Oct. 4, 1887
371,121 Barton, W. H. H. Thermostats Oct. 4, 188 371,1461 Adams, T. E. Commectors Oct. 11, 188 371,1497 Fullerton, G. A. Medical and surgical, body-wear Oct. 11, 188 371,199 Kimball, A. S. and Brownell, G. L. Applications, tools and machines Oct. 11, 188 371,199 Kimball, A. S. and Brownell, G. L. Applications, tools and machines Oct. 11, 188 Oct. 11, 1		Wallace, T.	Conductors, underground	
371,161 Adanis, T. E		Barton, W. H. H	Thermostats	Oct. 4, 1887
S71,189 Fullerton, G. A Medical and surgical, body-wear Oct. 11, 18				
S71,199				
S71,292				
S71,244 Bailey, M. and Warner, J. Batteries, galvanie Oct. 11, 18;				Oct. 11, 1887
ST1,253		Woods, G. T.	Telephones, electric	Oct. 11, 1887
Telephones, switches		Bailey, M. and Warner, J.	Batteries, galvanie	
S71,331 Kornmüller, G	371,203		Telephones switches	
April				
S71,558 Reckenzaun, A Batteries, secondary Oct. 11, 18 S71,496 Barnes, W. W Insulating material Oct. 11, 18 S71,439 Eastman, W. H Telephones, mechanical Oct. 11, 18 S71,445 Glasgow, W. and Stevens, S. S Bells Oct. 11, 18 S71,521 Rowell, H. N Medical and surgical, body-wear Oct. 11, 18 S71,521 Smith, E Induction-coils Oct. 11, 18 S71,533 Watson, J. E Relays and sounders Oct. 11, 18 S71,533 Oct. 11, 18 Regulators Oct. 11, 18 S71,535 Oct. 11, 18 Oct. 18, 18 Oct	371,336	Mansfield, G. W	Locomotion	Oct. 11, 1887
ST1,496 Barnes, W. W. Insulating material Oct. 11, 188		Pierce, W. L. L	Medical and surgical, body-wear	Oct. 11, 1887
S71,436			Inculating material	Oct. 11, 1887
Telephones, mechanical Oct. 11, 188				Oct. 11, 1887
ST1,445 Glasgow, W. and Stevens, S. S. Bells Medical and surgical, body-wear Oct. 11, 188				
371,521 Rowell, H. N Medical and surgical, body-wear Oct. 11, 18; 371,524 Smith, E Induction-coils Oct. 11, 18; 371,536 Amet, E. H Regulators Oct. 11, 18; 371,536 Amet, E. H Regulators Oct. 18, 18; 371,555 Ourran, J Anti-induction devices Oct. 18, 18; 371,555 Orew, S. C Oct. 18, 18; 371,559 Over, R. N Meters Oct. 18, 18; 371,559 Over, R. N Meters Oct. 18, 18; 371,570 Fisher, J. J Lights, sockets and keys Oct. 18, 18; 371,569 Redl, C Alarms Oct. 18, 18; 371,626 Redl, C Oct. 18, 18; 371,720 Waddell, M Galvanometers Oct. 18, 18; 371,720 Waddell, M Galvanometers Oct. 18, 18; 371,727 Oct. 18, 18; 371,727 Oct. 18, 18; 371,728 Oct. 18, 18; 371,729 Redl, J. R. Induction-coils Oct. 18, 18; 371,730 Redl, J. R. Induction-coils Oct. 18, 18; 371,829 Redl, J. R. Induction-coils Oct. 18, 18; 371,829 Redl, J. R. Oct. 18, 18; 371,820 Redl, J. R. Oct. 18, 18; 371,830 Redl, J. R. Oct		Fisher, F. E		
371,524 Smith, E				
Relays and sounders			Induction-coils	Oct. 11, 1887
371,555 Curran, J				
371,557 Drew, S. C	371,536	Amet, E. H	Regulators	Oct. 18, 1887
Meters		Curran, J	Anti-induction devices	Oct. 18, 1887
371,570 Fisher, J. J Lights, sockets and keys Oct. 18, 185	, , , , , ,			
371,583 Hobby, A. S. Indicators Oct. 18, 188 371,626 Redl, C. Alarms Oct. 18, 188 371,640 Thompson, E. W Recorders Oct. 18, 188 S71,655 Woods, G. T. Car-brakes Oct. 18, 188 371,664 Brannan, J. and Stone, W. E. Dental instruments Oct. 18, 188 371,670 Chase, E. M. Railway signals Oct. 18, 188 371,681 Grant, J. Insulating material Oct. 18, 188 371,696 Meads, S. P. Time alarms Oct. 18, 188 371,752 Foster, G. W. Galvanometers Oct. 18, 188 371,755 Hard, J. R. Induction-coils Oct. 18, 188 371,755 Hard, J. R. Induction-coils Oct. 18, 188 371,757 Hott, A. L. Telephones, supports Oct. 18, 188 371,898 Waring, R. S. Connectors Oct. 18, 188 371,869 Whitney, E. R. Spring scales Oct. 18, 188 371,869 Whitney, E. R. Spring scales Oct. 18, 188 371,893 King, F. Batteries, secondary, applications Oct. 18, 188 371,915 Baker, C. D. Lights, systems and appliances Oct. 25, 188 371,936 Hartman, J., jr Rheostats Oct. 25, 188 Oct. 25, 188		Fisher, J. J	Lights, sockets and keys	Oct. 18, 1887
Recorders	371,583	Hobby, A. S.	Indicators	Oct. 18, 1887
371,655 Woods, G. T.				
371,664 Brannan, J. and Stone, W. E. Dental instruments Oct. 18, 18, 18, 18, 16, 16, 16, 17, 16, 17, 16, 18, 18, 18, 171,681 Grant, J Insulating material Oct. 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,				
371,670 Chase, E. M Railway signals Oct. 18, 18; 371,681 Grant, J Insulating material Oct. 18, 18; 371,696 Meads, S. P Time alarms Oct. 18, 18; 371,720 Waddell, M Galvanometers Oct. 18, 18; 371,752 Foster, G. W Telephones, ealls Oct. 18, 18; 371,755 Hard, J. R Induction-coils Oct. 18, 18; 371,757 Hott, A. L Telephones, supports Oct. 18, 18; 371,808 Waring, R. S Oct. 18, 18;			Dental instruments	Oct. 18, 1887
371,681 Grant, J Insulating material Oct. 18, 18 371,696 Meads, S. P Time alarms Oct. 18, 18 371,720 Waddell, M Galvanometers Oct. 18, 18 371,752 Foster, G. W Telephones, ealls Oct. 18, 18 371,755 Hard, J. R Induction-coils Oct. 18, 18 371,757 Hott, A. L Telephones, supports Oct. 18, 18 371,808 Waring, R. S Oct. 18, 18 371,840 Heffner, S. and Phillips, J. H Oct. 18, 18 371,869 Whitney, E. R Spring scales Oct. 18, 18 371,876 Burgher, C Telegraphy, fire Oct. 18, 18 371,876 Burgher, C Telegraphy, fire Oct. 18, 18 371,936 King, F Baker, C. D Lights, systems and appliances Oct. 25, 18 371,937 Hartman, J. ir Rhoestats Oct. 25, 18 Oct.	371,670	Chase, E. M.	Railway signals	Oct. 18, 1887
371,720 Waddell, M Galvanometers Oct. 18, 18, 18, 18, 17,752 Foster, G. W Telephones, ealls Oct. 18, 18, 18, 18, 171,755 Hard, J. R Induction-coils Oct. 18, 18, 18, 171,757 Hott, A. L Telephones, supports Oct. 18, 18, 18, 171,808 Waring, R. S Oct. 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,			Insulating material	Oct. 18, 1887
371,752 Foster, G. W Telephones, ealls Oct. 18, 18 371,755 Hard, J. R. Induction-coils Oct. 18, 18 371,757 Hott, A. L. Telephones, supports Oct. 18, 18 371,808 Waring, R. S. Oct. 18, 18 371,840 Heffner, S. and Phillips, J. H Oct. 18, 18 371,869 Whitney, E. R Spring scales Oct. 18, 18 371,876 Burgher, C Telegraphy, fire Oct. 18, 18 371,893 King, F Batteries, secondary, applications Oct. 18, 18 371,915 Baker, C. D Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locomotion Oct. 25, 18 371,937 Hartman, J., jr Rhoestats Oct. 25, 18 371,937 Hartman, J., jr Rhoestats Oct. 25, 18 371,937 Ratman, J., jr Rhoestats Oct. 25, 18			Galvanometers	Oct. 18, 1887
371,755 Hard, J. R. Induction-coils Oct. 18, 18, 18, 171,757 Hott, A. L. Telephones, supports Oct. 18, 18, 18, 171,808 Waring, R. S. Oct. 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,			Telephones, calls	Oct. 18, 1887
Telephones, supports			Induction-coils	Oct. 18, 1887
371,840 Heffner, S. and Phillips, J. H do. Oct. 18, 18 371,869 Whitney, E. R Spring scales Oct. 18, 18 371,876 Burgher, C Telegraphy, fire Oct. 18, 18 371,893 King, F Batteries, secondary, applications Oct. 18, 18 371,915 Baker, C. D Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locomotion Oct. 25, 18 371,937 Hartman, J., ir Rheostats Oct. 25, 18	371,757	Hott, A. L.	Telephones, supports	Oct. 18, 1887
371,869 Whitney, E. R Spring scales Oct. 18, 18 371,876 Burgher, C Telegraphy, fire Oct. 18, 18 371,893 King, F Batteries, secondary, applications Oct. 18, 18 371,915 Baker, C. D Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locomotion Oct. 25, 18 371,937 Hartman, J., ir Rheostats Oct. 25, 18				
371,876 Burgher, C. Telegraphy, fire Oct. 18, 18 371,893 King, F. Batteries, secondary, applications Oct. 18, 18 371,915 Baker, C. D. Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locomotion Oct. 25, 18 371,937 Hartman, J., ir Rheostats Oct. 25, 18			Spring scales	Oct. 18, 1887
371,893 King, F Batteries, secondary, applications Oct. 18, 18 371,936 Baker, C. D Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locenoistis Oct. 25, 18 371,937 Hartman, J., ir Rhostats Oct. 25, 18			Telegraphy, fire	Oct. 18, 1887
371,915 Baker, C. D Lights, systems and appliances Oct. 25, 18 371,936 Hartman, J., jr Locomotion Oct. 25, 18 371,937 Hartman, J. jr Rheostats Oct. 25, 18	371.893	King, F	Batteries, secondary, applications	Oct. 18, 1887
371,937 Hartman, J., ir		Baker, C. D	Lights, systems and appliances	Oct. 25, 1887
271 (40) Helevale 4 C		Hartman, J., Jr	Rheostats	Oct. 25, 1887
1 relephones, systems Uct. 25, 16	371,940	Holcombe, A. G	Telephones, systems	Oct. 25, 1887

No.	Name.	CLASS.	DATE.
371,958	Markland, W. H	Galvanometers	Oct. 25, 1887
371,965	Munsie, J. F		Oct. 25, 1887
371,980	Selden, C	Telegraphy, automatic	Oct. 25, 1887
372,010	Brunet, A.		Oct. 25, 1887
372,012	Colburn, I. W Kintner, C. J		Oct. 25, 1887 Oct. 25, 1887
372,026 372,027	Kiutner, C. J.	do	Oct. 25, 1887
372,028	Kintner, C. J	do	Oct. 25, 1887
372,029	Kintner, C. J	do	Oct. 25, 1887
372,046	Stuart, G.	Electric cartridges	Oct. 25, 1887
372,078	Mctzger, H		
372,155	Lane, G. M.	Relays and sounders	
372,168	Oliver, W	Applications, general	
372,193	Armstrong, J. T	Batteries, galvanic	
372,201 372,208	Brown, C. E. L.—————————————————————————————————	Regulators	Oct. 25, 1887 Oct. 25, 1887
372,231	Meston, A. W	Motors	Oct. 25, 1887
372,245	Watson, J. E	Telegraphy, automatic	Oct. 25, 1887
372,247	Adams, A. F	Indicators	Oct. 25, 1887
372,273	Nulty, J. T	Rails	Oct. 25, 1887
372,313	Haines, R	Lamp shades	Nov. 1, 1887
372,330	Rice, E. W., jr	Systems of distribution	Nov. 1, 1887
372,334 372,358	Sawyer, F. A	Lights, systems and appliances Meters	Nov. 1, 1887 Nov. 1, 1887
372,361	Daft, L	Applications, tools and machines	
372,363	Deacon, B. R.	Couplings, valved.	Nov. 1, 1887
372,378	Lockwood, T. D.	Telphone systems, automatic	Nov. 1, 1887
372,404	Deprez, M. and Abdank-Abakanowicz, B	Telephones, calls	
372,409	Fischer, W. and Stiehl, T.	Thermostats	Nov. 1, 1887
372,423 372,441	Mallet-Guy, F	Coiling	Nov. 1, 1887
372,447	Batchelor, C	Applications, general	Nov. 1, 1887 Nev. 1, 1887
372,455	Clamond, C		
372.468	Hering, C.		
372,475	Leggo, W. A	Telegraphy, automatic	
372,494	Shepherd, C. H.		
372,501	Thomson, E		
372,550	McKnight, E		
372,579 372,598	Tafflinger, C. E		
372,599	Card, G. F	Connectors	
372,637	Pond, F. S	do	
372,647	Williams, J	Medical and surgical, body-wear	
372,657	Cox, H. B.	Bells	
372,658 372,720	Cox, H. B	Batteries, galvanic Photography, processes	
372,734	Wilder, C. H.	Batteries, galvanic	Nov. 8, 1887
372,797	Howell, J. W.		
372,798	Howell, J. W.		
372,799	Howell, J. W.		
372,805	Juengst, G		
372,808 372,822	Surague E I	Medical and surgical, body-wear	Nov. 8, 1887
372,823	Sprague, F. J	Magneto-electric	Nov. 8 1887
372,823 372,824	Sprague, F. J.	Applications, general	Nov. 8, 1887
372,846	Evans, W. W.	Transmitters	Nov. 8, 1887
372,851	Kelly, J. F	Galvanometers	Nov. 8, 1887
372,860	Montanus, G	Regulators	Nov. 8, 1887
372,865	rearce, F	Railway signals	Nov. 8, 1887
372,910 372,926		Motors Apparel	
372,934	Shallenberger, O. B	Magneto-electric	Nov. 8, 1887
372,935	Shallenberger, O. B	do	Nov. 8, 1887
372,936	Shallenberger, O. B	Systems of distribution	Nov. 8, 1887
372,940	Soden, F. H. and Goehst, H	Lights, systems and appliances	Nov. 8, 1887
372,942	Stauley, W., Jr	Se tone of distribution	Nov. 8, 1887
372,943 372,944		Systems of distribution	
372,945	Stanley, W., jr		
372,948	Bradley, W. W. and Holroyd, J. R.	Ordnance, electric appliances	Nov. 8, 1887
372,986	Mathis, 8		
373,009.	Byllesby, H. M	Systems of distribution	Nov. 8, 1887
373,010	Byllesby, H. M		Nov. 8, 1887
373,021 373,029	Howell, J. W		Nov. 8, 1887
	Shallenberger, O. B	Induction-coils	10V. 8, 1887
373,024		Magneto-electric	Nov 8 1887

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No.	Name.	Class.	DATE.
373 ,036	Westinghouse, G., jr	Systems of distribution	Nov. 8, 1887
373.037	Westinghouse, G., jr	do	Nov. 8, 1887
373,038	Westinghouse, G., jr., Byllesby, H. M., Shallenger, O. B. and Schmid, A.	Induction-coils	Nov. 8, 1887
373,043	Baker, J. M.	Bells	Nov. 15, 1887
373,044	Bennett, G. S.	Medical and surgical, body-wear	Nov. 15, 1887
373,046 373,061	Bidwell, B Easton, L. F	Valve-controllers	Nov. 15, 1887 Nov. 15, 1887
373,064	Gassner, C., jr	Batteries, galvanie	Nov. 15, 1887
373,073	Joerke, W. G	Alarms	Nov. 15, 1887
373,088 373,102	Morehouse, M. A Sternberg, G. M	Medical and surgical, body-wear Bells	Nov. 15, 1887 Nov. 15, 1887
373,103	Sternberg, G. M	Thermostats	Nov. 15, 1887
373,104	Sternberg, G. M	do	Nov. 15, 1887
373,108 373,138	Thomson, E Hexamer, C. J	MotorsClocks, electric	Nov. 15, 1887 Nov. 15, 1887
373,145	Main, W.	Magneto-electric	Nov. 15, 1887
373,146	Main, W	do	Nov. 15, 1887
373,152 373,160	Oakes, A. Tiffany, J. C. and De Mier, J. R.	Keys Telegraphy, railway-car	Nov. 15, 1887 Nov. 15, 1887
373,207	Tirrell, J. P.	Circuit-closers	Nov. 15, 1887
373,211	Wenström, J	Separators	Nov. 15, 1887
373,289 373,334	Hart, W. H	Conductors, underground Batteries, galvanic	Nov. 15, 1887 Nov. 15, 1887
373,369	Jenney, C. D	Regulators	Nov. 15, 1887
373,383	Woods, G. T	Telegraphy, railway-car	Nov. 15, 1887
373,393 373.394	Dewing, J. and Bennett, D. F	Wood-working machinery, boring	Nov. 15, 1887 Nov. 15, 1887
373,397	Guest, J. H	Registers	Nov. 15, 1887
373,399	Hamilton, J. R	Electrodes	Nov. 15, 1887
373,407 373,435	Kress, G. R. Brewer, H. J.		Nov. 15, 1887 Nov. 22, 1887
373,452	Gennert, E. F	Lights, systems and appliances	Nov. 22, 1887
373,508	Wiley, C. J	Telegraphy, printing	Nov. 22, 1887
373,519 373,584	Farnham, I. H Edison, T. A	Telephones, systems	Nov. 22, 1887 Nov. 22, 1887
373,644	Carpentier, J	Recording attachments	Nov. 22, 1887
373,691	Schwalm, H. F. D	Decomposing fats	Nov. 22, 1887
373,739 373,759	Higham, D.————————————————————————————————————	Regulators	Nov. 22, 1887 Nov. 22, 1887
373,761	Wiese, G. A	Lights, arc, gravity feed, gear	Nov. 22, 1887
373,767	Butler, H. D	Regulators	Nov. 22, 1887
373,859 373,883	Sellon, R. P. and Mordey, W. M.——————————————————————————————————	Batteries, secondary, applications	Nov. 29, 1887 Nov. 29, 1887
373,910	Scribner, C. E	Telephones, calls	Nov. 29, 1887
373,915 373,925	Woods, G. T.——————————————————————————————————	Telegraphy, railway-car Girders and columns	
373,934	Homans, C. A		
373,948	Scribner, C. E	Magneto-electric	Nov. 29, 1887
373,967 373,968	Delany, P. B	Telegraphy, automatic	
373,971	Easton, J. W	Magneto-electric	
373,975	Hammond, B. M.	Meters	Nov. 29, 1887
374,013 374,017	Tarbox, J. E.	BalancesCut-outs, electro-magnetic	
374,028	Woehrle, A. C	Magnetic locks and bolts	Nov. 29, 1887
374,036	Bosworth, C. B		
374,038 374,072	Johnson, W. S	Telegraphy, automatic Valve-controllers	
374,088	Roosevelt, H. L	Organ-actions, pneumatic	Nov. 29, 1887
374,103 374,129	Wilson, D.	Girders and columns	
374,129	Appleby, J. C	Lights, arc, gravity feed, frictional	
374,166	Appleby, J. C	do	Dec. 6, 1887
374,173 374,198	Case, W. E	Batteries, galvanic	Dec. 6, 1887 Dec. 6, 1887
374,198	Oreutt, E. L.	Railway signals————————————————————————————————————	
374,224	Wheeler, M	Lights, incandescent	Dec. 6, 1887
374,225 374,236	Whitefield, G. W	Dental instruments	Dec. 6, 1887 Dec. 6, 1887
374,315	Bentley, F. M	Locomotion Traction, underground	Dec. 6, 1887
374,322	Ricketson, J. C	Indicators	Dec. 6, 1887
374,329 374,348	Waite, H. E	Batteries, galvanic Conductors, underground	Dec. 6, 1887 Dec. 6, 1887
374,374	Reynolds, W. H	Valve-controllers	Dec. 6, 1887
374,381	Waddell, M	Systems of distribution	Dec. 6, 1887
374,390	Bixby, A	Transmitters	Dec. 6, 1887

No. NAME Class Date				
State	No.	Name.	CLASS.	DATE.
State	374.404	Field, S. D	Rheostats	Dec. 6, 1887
State				
374,495 Davis, J. P. Conductors, underground Dec. 6, 1887 374,295 Entz, J. B. Lighting devices Dec. 6, 1887 374,595 Entz, J. B. Lighting devices Dec. 6, 1887 374,595 Entz, J. B. Lighting devices Dec. 6, 1887 374,595 Entz, J. B. Lighting devices Dec. 6, 1887 374,595 Entz, J. B. Lighting devices Dec. 18, 1887 374,595 Entz, J. B. Lighting devices Dec. 18, 1887 374,595 Entz, J. B. Entries, galvanic Dec. 18, 1887 374,695 Entz, J. B. Entries, galvanic Dec. 18, 1887 374,695 Entz, J. B. Entries, galvanic Dec. 18, 1887 374,695 Entz, J. B. Entries, galvanic Dec. 18, 1887 374,673 Entz, J. B. Entries, secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,715 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. Entries, Secondary, applications Dec. 18, 1887 374,717 Entz, J. B. E				
Applications general Dec. 6, 1887 Applications general Dec. 6, 1887 Applications general Dec. 6, 1887 Applications general Dec. 18, 1887 Applications genera				
Stripped Stripped				
374,52 Boyle, J. C.				
S74,631 Series, F. J. Magneto-electric Dec. 13, 1887				
Street S				
Stripped Sundström, K. J. Blasting and fluses Dec. 13, 1887 Str4652 Bosworth, C. B. Cut-outs, electro-magnetic Dec. 13, 1887 Str4673 Griscom, W. W. Batteries, sequating Dec. 13, 1887 Str4673 Griscom, W. W. Batteries, sequating Dec. 13, 1887 Str4673 Strafe, H. B. Magneto-electric Dec. 13, 1887 Str471 Stater, H. B. Magneto-electric Dec. 13, 1887 Str471 Str473 Str474 Str				
State Seworth, C. B.				
Strict S				
374.71 Slater, H. B. Magneto-electric Dec. 13, 1887 374.73 Currie, S. C. C. Railway signals Dec. 13, 1887 374.73 Currie, S. C. C. Railway signals Dec. 13, 1887 374.73 Currie, S. C. C. Railway signals Dec. 13, 1887 374.73 Currie, S. C. C. Conductors, underground Dec. 13, 1887 374.73 Currie, S. C. Conductors, underground Dec. 13, 1887 374.73 Currie, S. C. Conductors, underground Dec. 13, 1887 374.74 Currie, S. C. Conductors, underground Dec. 13, 1887 374.94 Lange, P. and Shallenberger, O. B. Curt-outs, thermal Dec. 13, 1887 374.95 Curried Dec. 14, 1887 Dec. 13, 1887 Dec. 14, 1887 D				
374,738 Circle, S. C. C. C. C. C. C. C. C.				
374,738 Currie, S. C. C. Railway signals Dec. 13, 1887 374,747 Muir, J. S. Electrodes Dec. 13, 1887 374,748 Congolon, A. F. Magneto-electric Dec. 13, 1887 374,749 Holt. G. D. Conductors, underground Dec. 13, 1887 374,749 Holt. G. D. Conductors, underground Dec. 13, 1887 374,841 Lange, P. and Shallenberger, O. B. Cut-touts, thermal Dec. 13, 1887 374,843 Lange, P. and Shallenberger, O. B. Cut-touts, underground Dec. 13, 1887 374,850 Cut-touts, thermal Dec. 13, 1887 The lange of the la		Rice F N		
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379,073 379,074	Jehl, F.	Systems of distribution	Mar. 6, 1888 Mar. 6, 1888
379,074 379,081	Short, S. H	Telephones, switches	Mar. 6, 1888
379,082	Short, S. H	Traction, underground	Mar. 6, 1888
379,144	Wright, C. H.	Alarms, burglar	Mar. 6, 1888
379,180	Partz, A. F. W	Batteries, galvanic	Mar. 6, 1888
379,201 379,203	Johnson, W. S	ThermostatsRepeaters	Mar. 6, 1888 Mar. 6, 1888
10,907	Eisenhardt, C. A (Reis. of 331,121.)		Mar. 6, 1888
379,221	Hering, C.	Connectors	Mar. 13, 1888
379,255	Thone, F		Mar. 13, 1888
379,284 379,339	Rice, L. C.	Magneto-electric	Mar. 13, 1888 Mar. 13, 1888
379,344	Stevens, G. M	Telegraphy, fireMiscellaneous	Mar. 13, 1888
379,368	Copeland, H. P	Transmitters	Mar. 13, 1888
379,372	Crouch, F. J	Batteries, galvanic	Mar. 13, 1888
379,396	Hagan, G. L	Igniting devices	Mar. 13, 1888 Mar. 13, 1888
379,404 379,406	Lockwood, W. V. McLaughlin, J. F.	Telegraphy, fire	Mar. 13, 1888
379,408	Mnckle, M. R., jr	Conductors, underground	Mar. 13, 1888
379,453	De Benardos, N		Mar. 13, 1888

No.	Name.	CLASS.	Date.
379,459	Glasgow, W. and Stevens, S. S.	Telegraphy, railway-car	Mar. 13, 1888
379,465	Hermite, E. and Cooper, C. F	Bleaching	Mar. 13, 1888
379,466	Higham, D.	Motors	Mar. 13, 1888
379,467	Higham, D.	do	Mar. 13, 1888
379,501 379,503	Brann, F. W. and Kinney, G. I.——————————————————————————————————		Mar. 13, 1888 Mar. 13, 1888
379,509	Enos, J. A	Locomotion	Mar. 13, 1888
379,511	Farrar, W. B.	Clocks, electric	
379,532	Farnham, I. H	Conductors, underground	
379,535	Hewitt, W Woodward, H	Conductors Batteries, galvanic	
379,551 379,552	Woodward, H	do	Mar. 13, 1888 Mar. 13, 1888
379,567	Faure, C. A	Batteries, secondary	Mar. 20, 1888
379,572	Gibson, C. D. P	do	Mar. 20, 1888
379,598	Otto, G	Connectors	Mar. 20, 1888
379,674 379,689	Bolmer, T. H	Explosives Magneto-electric	Mar. 20, 1888 Mar. 20, 1888
379,758	Botts, B. N	Annunciators	Mar. 20, 1888
379,766	Dibble, F. J.	Telethermometers	Mar. 20, 1888
379,770	Edison, T. A	Lights, incandescent	Mar. 20, 1888
379,771	Edison, T. A	Regulators	Mar. 20, 1888
379,772 379,783	Edison, T. A Hill, E	Batteries, secondary, applications Operating ordnance	Mar. 20, 1888 Mar. 20, 1888
379,792	Knowles, E. R.	Lights, are	Mar. 20, 1888
379,802	McLaughlin, J. F	Motors	Mar. 20, 1888
379,815	Ries, E. E	Locomotion	Mar. 20, 1888
379,816	Ries, E. E. and Henderson, A. H	do	Mar. 20, 1888
379,820 379,822	Schanschieff, ASeiler, C	Salines	Mar. 20, 1888 Mar. 20, 1888
379,832	Talcott, W., 2d	Knitting and netting, stopping	Mar. 20, 1888
379,842	Wilkes, G	Lights, sockets and keys	Mar. 20, 1888
379,865	Fuller, F. L.	Recorders	Mar. 20, 1888
379,904	Oehrle, A. C.	Railways, elevated	Mar. 20, 1888
379,909 379,911	Ries, E. E.—————————————————————————————————	LocomotionBatteries, galvanic	Mar. 20, 1888 Mar. 20, 1888
379,944	Edison, T. A	Magneto-electric	Mar. 27, 1888
379,956	Heisler, C	Regulators	Mar. 27, 1888
379,977	Parke, J. Y	Igniting devices	Mar. 27, 1888
379,991 380,010	Young, C. S. aud Painter, G. E	Ships, sub-marine and torpedo————————————————————————————————————	Mar. 27, 1888 Mar. 27, 1888
380,020	Card, G. F	Magneto-electric	Mar. 27, 1888
380,022	Cole, F. W.	Telegraphy, fire	Mar. 27, 1888
380,053	Sawyer, W. H	Conductors	Mar. 27, 1888
380,054	Sawyer, W. H	do	Mar. 27, 1888
380,060 380,074	Speed, F. M. Adams, T. E.		Mar. 27, 1888 Mar. 27, 1888
380,084	Brewer, H. J		Mar. 27, 1888
380,085	Brewer, II. J	do	Mar. 27, 1888
380,100	Edison, T. A		Mar. 27, 1888
380,101 380,102	Edison, T. A	Systems of distributiondo	Mar. 27, 1888 Mar. 27, 1888
380,103		Locomotion	Mar. 27, 1888
380,114	Heisler, C.	Cut-outs, electro-magnetic	Mar. 27, 1888
380,115	Heisler, C.	Magneto-electric	Mar. 27, 1888
380,138 380,144	Kies, E. E	Induction-coils	Mar. 27, 1888
380,137	Acheson E G	Conductors	Mar. 27, 1888
380,158		do	Mar. 27, 1888
380,165	Bennett, A. W. and Millen, J. M	Railway signals	Mar. 27, 1888
380,202	Heisler, C	Lights, sockets and keys	Mar. 27, 1888
380,215 380,241	Rarnac W A	Telegraphy, fire alarms and extinguishers	Mar. 27, 1888 Mar. 27, 1888
380,261	Jackson, R. F. and Pope, W. R	Medical and surgical, baths	Mar. 27, 1888
380,271	Adams, C. W.	Lights, are	Mar. 27, 1888
380,295		Conductors	Mar. 27, 1888
380,301 10,915	Irwin I H (Pois of 200 acc)	Drop-lights and hangers	Mar. 27, 1888 Mar. 27, 1888
380,310	Borland, D. R	Telephones, electric Keys	Apr. 3 1888
380,316	Farrar, J. H	Railway signals	Apr. 3, 1888
380,382	Bullitt, L. McK. and Greene, O. C	Circuit-closers	Apr. 3, 1888
380,394		Thermostats	
380,409 380,426	Farmer M G	Railway signals Telephones, electric	Apr. 3, 1888 Apr. 3, 1888
380,427	Farmer, M. G	do	Apr. 3, 1888
380,430	Frishmuth, W.	Batteries, galvanic	Apr. 3, 1888
380,435	Harding, A	Lights, are	Apr. 3, 1888
380,437	House, W. D	Telephones, electric	Apr. 3, 1888

No. Name. Class. 380,438 380,469 380,535 380,535 380,545 Berton, C House, W. D Telephones, electric 380,545 380,545 380,554 380,554 Berton, C Loconiotion 380,554 380,568 380,589 380,589 380,589 C'Keenan, C. E Batteries, secondary 380,589 380,594 380,595 O'Keenan, C. E Batteries, galvanic 380,595 380,595 Randall, C. A Hand stamps	Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888
380,469 Whipple, S. A	Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888
380,469 Whipple, S. A	Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888
380,545 Berton, C Lights, arc 380,554 De Benardos, N Batteries, secondary 380,568 Harness, C. B Medical and surgical, body-wear 380,589 O'Keenan, C. E Batteries, galvanic 380,594 Randall, C. A Hand stamps 380,595 Randall, C. A do	Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888
Batteries, secondary Batteries, secondary S80,584 Harness, C. B Medical and surgical, body-wear Batteries, galvanic Batteries, galvanic Hand stamps Hand stamps Bandall, C. A Hand stamps Ha	Apr. 3, 1888 Apr. 3, 1888 Apr. 3, 1888
380,568 Harness, C. B	Apr. 3, 1888 Apr. 3, 1888
380,589 O'Keenan, C. E	Apr. 3, 1888
380.595 Randall, C. Ado	
380,999 Randall, C. A	. 1
380,610 Van Gestel, J. T	Apr. 3, 1888 Apr. 3, 1888
380,620 Crowdus, W. A. and Sutton, H. M. Magneto-electric	
380,646 De Mier, J. R Telegraphy, railway-car	Apr. 3, 1888
380,647 De Mier, J. R	
380,655 Martin, M Telegraphy, fire 380,702 Slater, H. B Magneto-electric	
380,752 Farnham, I. H Telephones, electric	
380,757 Hart. W. H. and Goodfellow, J. T. Conductors, underground	
380,765 Pendleton, J. M. Batteries, secondary	
380,766 Perkins, C. G. and Tregoning, J. Cut-outs, thermal Telegraphy, fire	
380,779 Wilson, J. C	
380,780 Wilson, J. Cdo	Apr. 10, 1888
380,817 Prichard, F. E. Valve-controllers	Apr. 10, 1888
380,824 Schlepegrell, F. W	Apr. 10, 1888 Apr. 10, 1888
380,842 Williamson, J. R. and Hickies, W. W.—— Applications, general————	Apr. 10, 1888
380,845 Belfield, R Systems of distribution	
380,846 Belfield, Rdo	Apr. 10, 1888
380,855 Brewer, H. J Batteries, galvanic Brewer, H. J do	Apr. 10, 1888
380,872 Draper, D Thermometers	Apr. 10, 1888
380,879 Field, S. D. Locomotion	
380,880 Field, S. D	
380,905 Marston, F. DuP Telephones, electric 380,922 Packer, R Batteries, secondary	Apr. 10, 1888 Apr. 10, 1888
380,925 Phelps, G. M.	
380,942 Shallenberger, O. B Batteries, galvanic	Apr. 10, 1888
380,943 Shallenberger, O. Bdo	Apr. 10, 1888
380,944 Shallenberger, O. B Lights, systems and appliances Lights, systems and appliances	Apr. 10, 1888 Apr. 10, 1888
380,946 Shallenberger, O. B. and Byllesby, H. M. Systems of distribution	Apr. 10, 1888
380.947 Shallenberger, O. B. and Byllesby, H. M. Batteries, galvanic	Apr. 10, 1888
380,971 Armstrong, J. T	Apr. 10, 1888
380,989 Carpenter, H. H	
381,048 Wynne, F. Locomotion	
381,054 Byllesby, H. M. and Shallenberger, O. B Systems of distribution	Apr. 10, 1888
381,167 Purdy, H Reflectors	Apr. 17, 1888
381,220 Davis, M. M	Apr. 17, 1888 Apr. 17, 1888
381,228 Fiske, B. A.	
381,234 Graham, J. M. Telephones, electric Telephones, electric	Apr. 17, 1888
381,246 Hotchkiss, Z. P. Telegraphy, automatic	
381,251 Jones, F. W	
381,260 Leighton, J. T. Medical and surgical, body-wear	
381,269 Morse, P. C Cut-outs, mechanical	Apr. 17, 1888
381,271 Mueller, E. T Slates Slates	
381,303 Pruden, S. M. Indicators	
381,304 Weston, E Rheostats	Apr. 17, 1888
381,305 Weston, Edo	Apr. 17, 1888
381,314 Wood, F. B Bells 381,336 Claffin, C. R. B., ir. and Flagg, J. W Batteries, galvanic	
381,336 Claffin, C. R. B., jr. and Flagg, J. W Batteries, galvanic Telegraphy, railway-car Telegraphy, railway-car	
381,344 De Mier, J. R	Apr. 17, 1888
381,372 Hermite, E. and Cooper, C. F. Bleaching	Apr. 17, 1888
381,382 Johnson, E. H. Telephones, electric	
381,394 Loomis, O. P. Magneto-electric Locomotion Locomotion	
381,396 Love, J. C. and Snediker, J. F Cars, steam street	
381,398 Mather, R. H Regulators	Apr. 17, 1888
381,420 Rice, E. W., jr Systems of distribution	Apr. 17, 1888
381,421 Ries, E. E. Magneto-electric 381,422 Riker, A. L. Batteries, galvanic	Apr. 17, 1888
381,430 Scribner, C. E Telephones, systems	Apr. 17, 1888
381,431 Scribner, C. E	

No.	Name.	CLASS.	DATE.
381,440	Thaxter, G. E	Igniting devices	Apr. 17, 1888
381,441	Thomson, E	Meters	Apr. 17, 1888
381,442	Thomson, E	do	Apr. 17, 1888
381,443	Thomson, E.	do	Apr. 17, 1888
381,446	Von der Kammer, J	Cut-outs, mechanical	Apr. 17, 1888
381,451 381,459	Atlancon T	Magneto-electric	Apr. 17, 1888 Apr. 17, 1888
381,480		Meters	Apr. 17, 1888
381,492	Blickensderfer, G. C. and Hallock, J. K		Apr. 17, 1888
381,531	Collins, W. H	Telephones, magnetic	Apr. 24, 1888
381,539	Dilley, C. M	Bell-hanging, pulls	Apr. 24, 1888
381,542	Egan, C. E Hunter, R. M	Batteries, galvanic	Apr. 24, 1888 Apr. 24, 1888
381,555 381,556	Hunter, R. M	Locomotiondo	Apr. 24, 1888
381,568	Mather, R. H	Magneto-electric	Apr. 24, 1888
381,576	Parrish, M. W	Annunciators	
381,585	Schlesinger, W. M		
381,614	Clingman, T. L	Lights, filaments and carbons	
381,636 381,650	Müller, M. A.	Magneto-electric Locomotion	Apr. 24, 1888
381,653	Steel, J	Conductors, underground	Apr. 24, 1888
381,669	Bickford, J. H.	Indicators.	Apr. 24, 1888
381,693	Gross, A	Compasses	Apr. 24, 1888
381,700	Kelley, J. F	Magneto-electric	Apr. 24, 1888
381,709	Martin, MSchneider, J	Annunciators Magnetic locks and bolts	Apr. 24, 1888
381,725 381,736	Weston, E	Galvanometers	Apr. 24, 1888 Apr. 24, 1888
381,738	Willis, J. B	Annunciators	Apr. 24, 1888
381,764	Delany, P. B	Circuits and systems	Apr. 24, 1888
381,765	De Redou, C. F	Bells	Apr. 24, 1888
381,768	Field, S. D	Motors	Apr. 24, 1888
381,772 381,780	Geary, J	Annunciators Galvanometers	Apr. 24, 1888 Apr. 24, 1888
381,789	Immisch, M	Magneto-electric	Apr. 24, 1888
381,794	Kennedy, R	Systems of distribution	Apr. 24, 1888
381,815	Ries, E. É	lleaters	Apr. 24, 1888
381,816	Ries, E. E	do	Apr. 24, 1888
381,817 381,818	Ries, E. E	do	Apr. 24, 1888
381,819	Ries, E. E	do	Apr. 24, 1888 Apr. 24, 1888
381,823	Bickford, J. H	Bells	Apr. 24, 1888
381,839	Jones, F. W.	Dynamos	Apr. 24, 1888
381,852	Schuehman, A	Alarms, burglar	Apr. 24, 1888
381,856 381,862	Sibley, C. C. Taylor, G. R. and Heckert, W.	Motors	Apr. 24, 1888 Apr. 24, 1888
381,866	Weil, L	Valve-controllers	Apr. 24, 1888
381,896	Young, J	Telegraphy, fire	Apr. 24, 1888
381,907	Connolly, T. A. and A. A	Locomotion	May 1, 1888
381,915	Dey; H. E	Batteries, secondary, applications	May 1, 1888
381,921 381,938	Gennert, E. F McCov, J. A	Gas fittings ————————————————————————————————————	May 1, 1888 May 1, 1888
381,941	Meserole, A. V		May 1, 1888
381,953		Medical and surgical, body-wear	
381,968	Tesla, N	Transmission of power	May 1, 1888
381,969	Tesla, N	Contains of distribution	May 1, 1888
381,970 381,992	Tesla, N Fessenden, G. B	Systems of distribution Recorders	May 1, 1888 May 1, 1888
381,993	Fessenden, G. B	recorders	
382,001	Holtzer, C. W	Igniting devices	May 1, 1888
382,056	Ruggles, D.	Signals, nauticai	May 1, 1888
382,098	Madden, A. F	Batteries, secondary	
382,110 382,112	Reilly, C. P Sellon, J. S	Lights, sockets and keys Batteries, secondary	
382,159	Hermite, E	Bleaching	
382,165	Johnson, W. S	Thermostats	
382,174	Mackie, R	Magneto-electric	
382,183	Omholt, J	Reducing and separation, aluminum	
382,195 382,231	Selden, C	Telegraphy, reed	
382,249	Bailey, E. E.	igniting devices	
382,253	Carroll, W	Telegraphy, fire	May 1, 1888
382,272	Robb, J. T	Lights, systems and appliances	
382,279 ~ 382,280	Tesla, N	Transmission of power	
382,281	Tesla, N	do	
382 282	Tesla, N	Induction-coils	May 1, 1888
382,299		Railway signals	

No.	Name.	CLASS.	Date.
382,332	Stirling, C. C	Cut-outs, mechanical	May 8, 1888
382,333 382,335	Stirling, C. C.—————————————————————————————————	Magneto-electric	May 8, 1888 May 8, 1888
382,336	Thomson, E	Regulators	May 8, 1888
382,358	Gibson, C. D. P	Batteries, secondary	May 8, 1888
382,414	Edison, T. A	Phonographs	May 8, 1888
382,415	Edison, T. A	Systems of distribution	May 8, 1888
382,416 382,419	Edison, T. A	Phonographsdo	May 8, 1888 May 8, 1888
382,420	Epstein, L	Batteries, secondary	May 8, 1888
382,421	Fenner, R. E	Lights, arc	May 8, 1888
382,439	Roome, H. C	Alarms, burglar	May 8, 1888
382,444 382,461	Taft, G. F	Telephones, systems	May 8, 1888
382,474	Dyer, R. N.——————————————————————————————————	do	May 8, 1888 May 8, 1888
382,475	Kellogg, M. G		May 8, 1888
382,476	Kellogg, M. G		May 8, 1888
382,477	Kellogg, M. G		May 8, 1888
382,483	McDougall, W. M.		May 8, 1888
382,515 382,518	DeRedon, C. F.	Railway signals — — — — Telephones, systems — — — — — — — — — — — — — — — — — — —	May 8, 1888 May 8, 1888
382,560	Seel, C	Lights, filaments and carbons	May 8, 1888
382,589	Card, G. F	Motors	May 8, 1888
382,593	Draper, C	Knitting and netting, stopping	May 8, 1888
382,599	Faure, C. A	Batteries, secondary, applications	May 8, 1888
382,625	Stitzel, F.	Cut-outs, electro-magnetic	May 8, 1888 May 15, 1888
382,714 382,715	Mather, R. H	do	May 15, 1888
382,726	Patterson, W. R	Conductors, underground	May 15, 1888
382,734	Russ, N. W	Applications, general	May 15, 1888
382,738	Sloane, G. H	Batteries, galvanic	May 15, 1888
382,741	Tisdale, C. D	Railway signals	May 15, 1888
382,756 382,766	Massey, A. P	Steam and air brakes	May 15, 1888 May 15, 1888
382,767	Patterson, W. R	Conductors, lead-covered	May 15, 1888
382,768	Patterson, W. R	do	May 15, 1888
382,778	Smith, W. F	Conductors, underground	May 15, 1888
382,781	Thomas, J. D.	Conductors	May 15, 1888
382,788 382,790	Young, J	Telegraphy, fire, alarms and extinguishers Phonographs	May 15, 1888 May 15, 1888
382,811	Horst, P	Electrodes	May 15, 1888
382,829	Patterson, W. R.	Conductors, underground	May 15, 1888
382,845	Tesla, N	Magneto-electric	May 15, 1888
382,846	Thompson, E. P	Lights, incandescent	May 15, 1888
382,856 382,876	Barrett, J. A	Relays and repeaters Locomotion	May 15, 1888 May 15, 1888
382,877	Hunter, R. M	do	May 15, 1888
382,914	Tregoning, J	Galvanometers	May 15, 1888
382,941	Bentley, E. M	Applications, general	May 15, 1888
382,968	Gibson, C. D. P.	Batteries, secondary	May 15, 1888
382,976 382,990	Hardinge, H. W. Knight, W. H.	Telethermometers Locomotion	May 15, 1888 May 15, 1888
382,997	McTighe, T. J	Annuneiators	May 15, 1888
383,013	Scribner, C. E	Telephones, systems	May 15, 1888
383,014	Scribner, C. E	do	
383,015 383,016	Scribner, C. E	Annunciators	
383,017	Scribner, C. E	Magneto-electrie, hand machines Telephones, systems	May 15, 1888 May 15, 1888
383,018	Scribner, C. E	(lo	May 15, 1888
383,046	Doubleday, H. M	Lights, systems and appliances	May 15, 1888
383,095	Bristol, W. H. and Geyer, W. E	Galvanometers	May 22, 1888
383,097 383,098	Brooks, D., jr	Conductors	May 22, 1888 May 22, 1888
383,105	Culp, J. D	Friction generatorsdodo	May 22, 1888 May 22, 1888
353,113	Easton, J. W	Magneto-electric	May 22, 1888
383,114	Easton, J. W	do	May 22, 1888
383,140	Russell, S	Batteries, secondary	May 22, 1888
383,150 383,158	Moses, O. A	Lights, incandescent	
383,158 383,184	Vance, S. B. H Leeds, A. R	Lights, systems and appliances Purifying water	May 22, 1888 May 22, 1888
383,193	Sellon, J. S.	Batteries, secondary	3.6 33 4333
383,216	Epstein, L	do	May 22, 1888
000,410		Telegraphy, fire	May 22, 1888
383,220	Gill, J. B		
383,220 383,263	Whittier, T. P	Batteries, galvanic	May 22, 1888
383,220			May 22, 1888

No.	Name.	CLASS.	DATE.
383,274	Blake, H. T. and Sterling, C.	Locomotion	May 22, 1888
383,320	Poland, L. N. P	Magneto-electric	May 22, 1888
383,332	Vance, S. B. H	Lights, systems and appliances	May 22, 1888
383,345 383,377	Crouch, F. J	RheostatsTelegraphy, fire, alarms and extinguishers	May 22, 1888 May 22, 1888
383,385	Abbott, A. V	Testing machines	May 22, 1888
383,411	Ohmart, E. C.	Lights, arc, gravity feed, frictional	May 22, 1888
383,436	Card, G. F	Photography, retouching	May 29, 1888
383,439 383,444	Crompton, R. E. B. and Kapp, G		May 29, 1888
383,450	Essick, S. V.	Galvanometers	May 29, 1888 May 29, 1888
383,464	Gulcher, R. J	Batteries, thermal	May 29, 1888
383,484	Packard, J. W.	Lights, filaments and carbons	May 29, 1888
383,485	Palmer, A. C.		May 29, 1888
383,495 383,502	Scribner, C. E Timmis, I. A. and Currie, S. C. C	Telephones, systems Batteries, secondary, applications	May 29, 1888 May 29, 1888
383,520	Fritts, C. E		May 29, 1888
383,536	Newman, E. A.	Thermostats	May 29, 1888
383,548	Wildt, E. A		May 29, 1888
383,560 383,561	Faure, C. A	Batteries, secondary	May 29, 1888
383,562	Faure, C. A		May 29, 1888 May 29, 1888
383,563	Fisher, F. E		May 29, 1888
383,564	Fisher, F. E	Motors.	May 29, 1888
383,565	Fisher, F. E.		May 29, 1888
383,566 383,567	Fisher, F. E.		May 29, 1888 May 29, 1888
383,575	Hunter, R. M		May 29, 1888
383,583	McLaughlin, J. F.	Indicators	May 29, 1888
383,602	Metzradt, H. J. von		May 29, 1888
383,605 383,611	Wheeler, A. D.		May 29, 1888
383,616	Bullesby, II. M. and Lange, P		May 29, 1888 May 29, 1888
383,617	Byllesby, 11. M	Magneto-clectric	May 29, 1888
383,618	Byllesby, H. M	Regulators	May 29, 1888
383,619	Byllesby, II. M		May 29, 1888
383,620 383,621	Byllesby, H. M Byllesby, H. M		May 29, 1888 May 29, 1888
383,622	Byllesby, H. M		May 29, 1888
383,623	Byllesby, H. M	do	May 29, 1888
383,640	Gibson, C. D. P		May 29, 1888
383,647 383,648	Lange, P.		May 29, 1888
383,649	Lange, P		May 29, 1888 May 29, 1888
383,651	Mather, R. II		May 29, 1888
383,655	Pond, C. 11	Clocks, electric	May 29, 1888
383,657	Schmid, A	Magneto-clectric	May 29, 1888
383,658 383,659	Schmid, A. and Byllesby, H. M.		May 29, 1888 May 29, 1888
383,661	Shallenberger, O. B		May 29, 1888
383,662	Shallenberger, O. B	Magneto-electric	May 29, 1888
383,663	Shallenberger, O. B		May 29, 1888
383,664 383,665	Shallenberger, O. BShallenberger, O. B	Galvanometers	May 29, 1888 May 29, 1888
383,666	Shallenberger, O. B	darvanometersdo	May 29, 1888
383,667	Shallenberger, O. B	do	May 29, 1888
383,668	Shallenberger, O. B	do	May 29, 1888
383,669	Shallenberger, O. B.		May 29, 1888 May 29, 1888
383,670 383,671	Shallcuberger, O. B		
383,672	Shallenberger, O. B		May 29, 1888
383,675	Thompson, E. P	Lights, incandescent	May 29, 1888
383,676	Thompson, E. P		May 29, 1888
383,677 383,678	Metzradt, H. J. von ———————————————————————————————————		May 29, 1888 May 29, 1888
383,679	Westinghouse, G., jr		May 29, 1888
383,680	Westinghouse, G., jr. and Lange, P	Meters	May 29, 1888
383,706	Cox, H. B	Batteries, galvanic	May 29, 1888
383,725	Gill, W. E. and Segerdahl, R.		May 29, 1888
383,734 383,756	Keyes, F. E		May 29, 1888 May 29, 1888
383,757	Morris, H. G. and Salom, P. G	Batteries, secondary	May 29, 1888
383,770	Ries, E. E. and Henderson, A. H	Locomotion	May 29, 1888
383,771	Saunders, A. D	Dumb waiters	May 29, 1888
383,775 383,786	Sintz, CViau, M	Explosives	May 29, 1888 May 29, 1888
383,794		Medical and surgical, baths	
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No.	Name.	CLASS.	DATE.
383,795	Bull, W. B	Incrustation	May 29, 1888
383,832	Stanley, W., jr	Motive power	May 29, 1888
383,843 383,844	Watson, J. E	Relays and sounders Locomotion	May 29, 1888 May 29, 1888
383,857	Brush, C. F	Regulators	June 5, 1888
383,863	Conkling, G	Separators	June 5, 1888
383,891	Leinp, H. and Wightman, M. J.	Cut-outs, thermal	June 5, 1888
383,899 383,901	Murphy, E. J. and Floyd, J Neu, G. S	Medical and surgical, body-wear Valve-controllers	June 5, 1888 June 5, 1888
383,913	Rice, E. W., jr	Rheostats	June 5, 1888
383,918	Smith, M. H	Separators	June 5, 1888
383,919	Splitdorf, H	Conductors	June 5, 1888
383,933 383,941	Wood, J. J.—————————————————————————————————	Cut-outs, mechanical	June 5, 1888 June 5, 1888
383,946	Ghegan, J. J	Alarms	June 5, 1888
384,035	Hamilton, J. B	Separators	June 5, 1888
384,042	Keilholtz, P. O	Lightning-arresters	June 5, 1888
384,044 384,077	Riker, A. L	Magneto-electric	June 5, 1888 June 5, 1888
384,088	Scribner, C. E	Annunciators	June 5, 1888
384,116	Baxter, W., ir	Cut-outs, mechanical	June 5, 1888
384,117	Baxter, W., jr	Regulators	June 5, 1888
384,151 384,152	Greaves, J	Photography, galleries	June 5, 1888 June 5, 1888
384,200	Ghegan, J. J	Alarms	June 5, 1888
384,201	Gilliland, E. T	Telephones, details	June 5, 1888
384,212 384,222	Nolan, J.	Alarms	June 5, 1888
384,222	Watson, J. E	Relays and sounders	June 5, 1888
384,271 384,289	Parcelle, A. L	Batteries, secondary, applications	June 12, 1888 June 12, 1888
384,302	Wright, J	Gas fittings	June 12, 1888
384,320	Mallett, E. J	Telegraphy, printing	June 12, 1888
384,321	Mallett, E. J	Electro-maguets	June 12, 1888
384,322 384,323	Mallett, E. J	Telegraphy, printing Relays and sounders	June 12, 1888 June 12, 1888
384,324	Mallett, E. J	Telegraphy, printing	June 12, 1888
384,325	Mallett, E. J	do	June 12, 1888
384,326	Mallett E. J		June 12, 1888
384,350 384,362	Doggett, J	Ships' logs	June 12, 1888 June 12, 1888
384,384	Nelson, C. B		June 12, 1888
384,404	Thomas, J. D.	Conductors	June 12, 1888
384,412	Bapst, G. and Falize, L	Time alarms	June 12, 1888
384,430 384,440	Downerd, H. S. Grein, O. F.	Annunciators Cut-outs, mechanical	June 12, 1888 June 12, 1888
384,447	Julien, E	Batteries, secondary, applications	June 12, 1888
384,455	Mahnken, H	Telegraphy, printing	June 12, 1888
384,472	Reams, A. J.	Clocks, electric	June 12, 1888
384,476 384,477	Scribner, C. E	Telegraphy, fire Telephones, systems	June 12, 1888 June 12, 1888
384,478	Spink, J. and Gauzentes, C	Lights, sockets and keys	June 12, 1888
384,505	Brewer, W. J.	Trucks	June 12, 1888
384,506		Journal boxes, roller-bearing	June 12, 1888
384,561 384,562	Condict J H	Medical and surgical, body-wear Locomotion	June 12, 1888 June 12, 1888
384,570	Grovesteen, M. W. and Jahn, F. G	Alarms	June 12, 1888
384,576	Hunter, R. M	Locomotion	June 12, 1888
384,580		do	June 12, 1888
384,581 384,586		Printing, surfaces	
384,594		Locomotion	June 12, 1888
384,638	Oliver, R	Magneto-electric	June 19, 1888
384,644	Scribner, C. E	Telephones, systems	June 19, 1888
384,645 384,660	Zalinski, E. L	Separators Primers	June 19, 1888 June 19, 1888
384,661		Shell fuses	
384,662	Zalinski, E. L	do	June 19, 1888
384,663		Shell frees	June 19, 1888 June 19, 1888
384,664 384,676		Shell fusesValve-controllers	June 19, 1888
384,685	Field, S. D	Locomotion	June 19, 1888
384,755	Godding, M. O	Railway signals	June 19, 1888
384,775 384,796	Mengis, M. C.	Locomotion	June 19, 1888 June 19, 1888
384,806	White, W. W	Igniting devicesElectro deposition	June 19, 1888
384,810	Williams, T. D. and Lucock, J. S	Railway signals	June 19, 1888
384,811	Williams, T. D. and Lucock, J. S.	do	June 19, 1888

No.	Name.	CLASS.	DATE.	
904 915	Wood, J. J	Lights, sockets and keys	June'19, 1888	
384,815	Wood, J. J.	Magneto-electric		
384,816	Wood, J. J.		June 19, 1888	
384,817	Edison T. A. and Cilliand E. T.	Lights, arc, gravity feed, gear	June 19, 1888	
384,830	Edison, T. A. and Gilliland, E. T	Telegraphy, railway-car	June 19, 1888	
384,856	Kiutner, C. J	Magnetic locks and bolts	June 19, 1888	
384,860	Meehan, M	Sub-ways	June 19, 1888	
384,875	Stevens, G. M		June 19, 1888	
384,901	Foster, H. A		June 19, 1888	
384,908	Hunter, R. M.	do	June 19, 1888	
384,909	Hunter, R. M.			
384,910	Hunter, R. M		June 19, 1888	
384,911	Hunter, R. M		June 19, 1888	
384,912	Hunter, R. M.		June 19, 1888	
384,934	Hunter, R. M.		June 19, 1888	
384,958	Brown, C. A. and Clark, M. M.	Batteries, galvanic	June 26, 1888	
384,962	Currie, S. C. C		June 26, 1888	
385,001	Packard, J. W.	Rheostats	June 26, 1888	
385,016	Spiegel, W. G	Signals, nautical	June 26, 1888	
385,020	Suuny, B. E.	Systems of distribution	June 26, 1888	
385,022	Thomson, E	Heaters	June 26, 1888	
385,023	Tracy, P. J.	Cut-outs, mechanical	June 26, 1888	
385,028	Wheelock, B. J	Batteries, galvanic	June 26, 1888	
385,034	Woods, G. T		June 26, 1888	
385,039	Carey, W. A.		June 26, 1888	
385,041	Carcy, W. A.	Circuit-closers	June 26, 1888	
385,042	Chase, H. A.		June 26, 1888	
385,043	Chase, H. A.		June 26, 1888	
385.053	Hunter, R. M		June 26, 1888	
385,054	Hunter, R. M	do	June 26, 1888	
385,055	Ilunter, R. H		June 26, 1888	
385,067	Perkins, C. G.		June 26, 1888	
385,068	Reckenzaun, A	Magneto-clectric	June 26, 1888	
385,095	Cockrell, A	Lightning-rods	June 26, 1888	
385,097	Condict, G. H	Locomotion	June 26, 1888	
385,145	Siebel, J. E			
385,147	Starr, E. E	Incrustation	June 26, 1888	
385,173		Batteries, galvanicSystems of distribution	June 26, 1888	
	Edison, T. A		June 26, 1888	
385,180	Hunter, R. M	Locomotion	June 26, 1888	
385,200	Reckenzaun, A	Batteries, secondary	June 26, 1888	
385,205	Scribuer, C. E	Telephones, systems	June 26, 1888	
385,211	Sprague, F. J.	Applications, general	June 26, 1888	
385,214	Stitzel, F. and Weinedel, C		June 26, 1888	
385,215	Stitzel, F. and Weinedel, C		June 26, 1888	
385,254	Doyle, J	Batteries, secondary	June 26, 1888	
385,259	Fiske, B. A.		June 26, 1888	
385,308	Hewett, E. M	Batteries, galvanic	June 26, 1888	
10,940	Helmer, P(Reis. of 368,948.)	Dental instruments	June 26, 1888	

APPENDIX No. VII.

PART III.

CONSISTING OF A

ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1. 1887, to June 30, 1888, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.



ALPHABETICAL INDEX

OF

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1887, TO JUNE 30, 1888.

No.	NAME.	CLASS.	DATE.
383,385	Abbott, A. V	Testing machines	May 22, 1888
368,745	Aborn, J. W. and Landin, J.	Tanning processes	Aug. 23, 1887
375,242	Acheson, E. G	Batteries, thermal	Dec. 20, 1887
375,243	Acheson, E. G.	do	Dec. 20, 1887
375,408	Acheson, E. G.	Magneto-electric	Dec. 27, 1887
380,157	Acheson, E. G.	Conductors	Mar. 27, 1888
380,158	Acheson, E. G. and Anderson, B. F	do	, ,
372,247	Adams, A. F	Indicators	Oct. 25, 1887
380,271	Adams, C. W	Lights, are	
371,161	Adams, T. E	Connectors	
380,074	Adams, T. E	Lights, are	Mar. 27, 1888
377,879	Ader, C	Circuits and systems Telephones, details	Feb. 14, 1888 Sept. 20, 1887
370,230 371,536	Amet, E. H	Regulators	Oct. 18, 1887
374,164	Appleby, J. C	Conductors, lead-covered	Dec. 6, 1887
374,166	Appleby, J. C		
372,193	Armstrong, J. T	Batteries, galvanic	
380,971	Armstrong, J. T	do	
366,292	Arnold, C. R	Lights, systems and appliances	
376,423	Arnold, C. R	do	Jan. 17, 1888
366,195	Arnold, S. W. and Cranmer, W. C.	Conductors, underground	July 12, 1887
374,860	Aron, H	Meters=	Dec. 13, 1887
374,861	Aron, H	do	
381,459	Atkinson, T	Fire extinguishers, chemical	
377,475 382,249	Bahr, J. F	Telephones, electric	
371,244	Bailey, E. E.—————————————————————————————————	Ignifing devices Batteries, galvanic	May 1, 1888 Oct. 11, 1887
368,804	Baker, C. D	Rheostats	
371,915	Baker, C. D	Lights, systems and appliances	
375,328	Baker, C. D	Rheostats	
373,043	Baker, J. M	Bells	
368,445	Baldwin, C. W	Applications, tools and machines	
383,269	Ballard, S. R	Telephones, systems	
370,847	Balloch, E. A.	Telephones, details	
375,977	Banks, D. B. and Hutchins, G. K	Towers	Jan. 3, 1888
384,412	Bapst, G. and Falize, L.	Time alarms	June 12, 1888
369,386 378,078	Bard, E. F Barnes, W. A	Clocks, electric Telegraphy, fire, alarms and extinguishers	Sept. 6, 1887 Feb. 21, 1888
380,241	Barnes, W. A.	do	Mar. 27, 1888
371,406	Barnes, W. W	Insulating material	Oct. 11, 1887
374,862	Barrett, J. A	Batteries, galvanic	Dec. 13, 1887
374,863	Barrett, J. A	do	Dec. 13, 1887
382,856	Barrett, J. A	Relays and repeaters	May 15, 1888
376,133	Barrett, J. P	Telegraphy, fire	Jan. 10, 1888
375,915	Barrett, J. P. and Mehren, J. F	Heaters.	Jan. 3, 1888
371,121	Barton, W. H. H.	Thermostats	Oct. 4, 1887
372,447	Batchelor, C	Magneto-electric	Nov. 1, 1887
368,315	Bathrick, L. E	Printing, delivering	Aug. 16, 1887 Jan. 31, 1888
377,058 378,864	Batten, J	Escape ladders, fixed	
378,568	Baumann, R	Permutation locks	
367,332	Baxter, C	Annunciators	July 26, 1887
384,116	Baxter, W., jr	Cnt-outs, mechanical	June 5, 1888
384,117	Baxter, W., jr	Regulators	June 5, 1888
376,228	Beattie, J., jr	Batteries, galvanic	Jan. 10, 1888
383,271	Beattie, J., jr	do	May 22, 1888
376,060	Beedy, S. E	Telephones, electric	Jan. 10, 1888
380,845	Belfield, R	Systems of distribution	Apr. 10, 1888
380,846	Belfield, R	Light and and and and an alignment	Apr. 10, 1888
383,611	Belfield, R	Lights, systems and appliances	May 29, 1888 Mar. 27, 1888
380,165 373,044	Bennett, A. W. and Millen, J. M Bennett, G. S	Railway signals Medical and surgical, body-wear	
010,033	Denicolly C. Dennesses	ricultar and surgical, body wear	2.01, 10, 1001

No.	Name.	Class.	DATE.
374,236	Bentley, E. M	Locomotion	Dec. 6, 1887
377,229	Bentley, E. M.	do	Jan. 31, 1888
377,230	Bentley, E. M	do	Jan. 31, 1888
382,941	Penchausen A	Applications, general————————————————————————————————————	May 15, 1888 Oct. 4, 1887
370,851 376,281	Berghausen A	Indicators	Jan. 10, 1888
375,117	Bergmann, S	Lights, systems and appliances	Dec. 20, 1887
376,976	Bergmann, S. and Dempster, J. T	Cut-outs, mechanical	
382,790	Berliner, E	Phonographs	May 15, 1888
369,091	Bernstein, A	Lights, filaments and carbons	Aug. 30, 1887
375,862 380,545	Berthold, V. M.	Telephones, electric Lights, are	
381,669	Bickford, J. H	Indicators	
381,823	Bickford, J. H	Bells	
373,046	Bidwill, B	Locomotion	Nov. 15, 1887
370,366	Birmingham, D. W	Amalgamators, electric	Sept. 20, 1887
374,390	Bixby, A	Transmitters	
374,444 375,255	Bixby, A Blades, H. H	Telegraphy, printing Motors	
383,273	Blake, H. T	Locomotion	
383,274	Blake, H. T. and Sterling, C	do	May 22, 1888
381,492	Blickensdorfer, G. C. and Hallock, J. K	Applications, tools and machines	Apr. 17, 1888
374,728	Bliss, E. N	Magneto-clectric	Dec. 13, 1887
378,426	Bliss, E. N. and Middleton, J. F		
368,450	Bloom, W. H	Transmitters	Aug. 16, 1887
366,811 379,674	Bolgiano, G. C	Explosives	
365,776	Bonta, J. W	Telephones, electric	July 5, 1887
365,777	Bonta, J. W.	do	July 5, 1887
365,778		do	
365,779		do	
365,780		do	
365,781 374,580		Dental instruments	
370,528	Borel, F		
380,310	Borland, D. R	Keys	
374,036	Bosworth, C. B	Circuit-closers	
374,652	Bosworth, C. B	Cut-outs, electro-magnetic	
375,118 379,758	Bosworth, C. B. Botts, B. N.	Annunciators	
368,321	Bowe, P		Aug. 16, 1887
374,581	Boyle, J. C.		Dec. 13, 1887
366,994	Bradford, T. C.	Telephones, details	July 19, 1887
372,958	Bradley, W. W. and Holroyd, J. R	Ordnance, electric appliances	Nov. 8, 1887
379,501		Cut-outs, mechanical	Mar. 13, 1888
371,664 367,359	Brewer H I	Batterics, galvanic	Oct. 18, 1887 Aug. 2, 1887
367,956	Brewer, H. J	do	Aug. 9, 1887
369,769	Brewer, H. J		Sept. 13, 1887
373,435	Brewer, H. J		Nov. 22, 1887
380,084	Brewer, H. J	do	Mar. 27, 1888
380,085 380,855	Brewer, H. J	do	Mar. 27, 1888 Apr. 10, 1888
380,856		do	Apr. 10, 1888
384,505	Brewer, W. J.	Trucks	June 12, 1888
384,506	Brewer, W. J.	Journal boxes, roller-bearings	June 12, 1888
365,905	Brewster, W. F.	Thermometers	July 5, 1887
375,727		Circuits and systems	Jan. 3, 1888
378,428 383,095	Bristol W H and Gever W E	Railway cars Galvanometers	Feb. 28, 1888 May 22, 1888
383,097		Couductors	May 22, 1888
384,676		Valve-controllers	June 19, 1888
78,385	Brown, A. W.	Telephones, magnetic	Feb. 21, 1888
73,334		Batterics, galvanic	Nov. 15, 1887
384,958		Porulators	June 26, 1888
372,201 383,794	Brown, C. E. L	Regulators Medical and surgical, baths	Oct. 25, 1887 May 29, 1888
376,706	Brown, F. H	Telephones, magnetic	
376,707	Brown, F. H	do	Jan. 17, 1888
368,066	Brown, I. H	Railway signals	Aug. 9, 1887
369,915		Lightning-rods	Sept. 13, 1887
383,941 372,010	Browne, W. D.		June 5, 1888
010,010	Brunet, A		
376,630			
376,630 383,857	Brush, C. F	Regulators	June 5, 1888
376,630	Brush, C. F		Aug. 23, 1887

No.	Name.	CLASS.	DATE.
369,432	Buckelew, A. H	Heaters	Sept. 6, 1887
383,795	Bull, W. B		
380,382	Bullitt, L. McK. and Greene, O. C		
376,579	Burcey, C. J. T	Incrustation	Jan. 17, 1888
368,907	Burgher, C	Telegraphy, fire	Ang. 23, 1887
371,876	Burgher, C	do	Oct. 18, 1887
374,038	Burke, C. G	Telegraphy, automatic	
368,512	Burton, G. D	Telegraphy, railway-car	
379,503	Burton, G. D	Railways, pneumatic	
384,561	Busch, C	Medical and surgical, body-wear	June 12, 1888
376,730 373,767	Bushfield, S. B.	Clasps	Jan. 24, 1888
366,375	Butler, H. D. Byllesby, H. M.		
373,009	Byllesby, H. M		
373,010	Byllesby, H. M		
383,617	Byllesby, H. M		
383,618	Byllesby, H. M	Regulators	
383,619	Byllesby, H. M		
383,620		Batteries, secondary, applications	May 29, 1888
383,621	Byllesby, H. M	do	May 29, 1888
383,622	Byllesby, H. M	do	
383,623		do	May 29, 1888
366,374	Byllesby, H. M. and Lange, P.		July 12, 1887
383,616	Byllesby, H. M. and Lange, P	Lights, incandescent	
366,376	Byllesby, H. M. and Shallenberger, O. B.	Systems of distribution	
381,054 369,394	Byllesby, H. M. and Shallenberger, O. B.	Conductors, anti-inductive	
369,917	Campbell, H. F.	Car-brakes	Sept. 6, 1887 Sept. 13, 1887
372,598	Card, G. F	do	
372,599	Card, G. F	Connectors	Nov. 1, 1887
380,020	Card, G. F	Magneto-electric	Mar. 27, 1888
382,589	Card, G. F	Motors	May 8, 1888
383,436-	Card, G. F	Photography, retouching	May 29, 1888
370,683	Carey, A. C.	Printing, copying	Sept. 27, 1887
385,039	Carey, W. A.	Lights, sockets and keys	June 26, 1888
385,041	Carey, W. A.	Circuit-closers	June 26, 1888
380,989	Carpenter, H. H	Batteries, secondary	Apr. 10, 1888
368,650	Carpenter, J. F		Ang. 23, 1887
370,605	Carpenter, J. F	do	Sept. 27, 1887
378,657	Carpenter, J. F	Fluid pressure railway brakes	Feb. 28, 1888
378,658 373,644	Compostion I	Passading attachments	
374,866		Recording attachments————————————————————————————————————	Nov. 22, 1887
382,253	Carroll W	Telegraphy, fire	May 1 1888
368,809	Carter, F. S.	Bells	Aug. 23, 1887
368,190		Batteries, galvanic	
368,191	Case, W. E		
374,173		do	
368,931		Telegraphy, multiplex	
375,339	Cassagnes, G. A	do	Dec. 27, 1887
365,792	Cauderay, J	Meters	July 5, 1887
366,202		do	
372,358		do	
375,476		Cut-outs, thermal	
367,598 371,670		Railway signals	
366,154	Chase, H. A.	Telegraphy, fire	
385,042	Chase, H. A.		
385,043	Chase, H. A		
370,243	Chase, N. F	Railway signals	
366,457	Chenoweth, A. C.	Conductors, underground	July 12, 1887
381,336	Claffin, C. R. B., jr., and Flagg, J. W	Batteries, galvanic	
372,455	Clamond, C	Telephones, clectric	Nov. 1, 1887
367,960	Clarke, C. L	Clocks, electric	Aug. 9, 1887
381,614	Clingman, T. L	Lights, filaments and carbons	Apr. 24, 1888
376,709	Clute, N. J	Car-brakes	Jan. 17, 1888
385,095	Cockrell, A		
372,012	Colburn, I. W	Rheostats	Oct. 25, 1887
376,583	Colby, E. A	Lights, sockets and keys	
370,932	Colby, E. J	Time alarms	
383,439	Colo F. W	(Colorwoler for	May 29, 1888
380,022 377,237	Cole, F. W	Telegraphy, fire	Jan. 21, 1888
376,071	Cole, G. H	Cut-outs, mechanical	
376,072	Cole, W. R.		
366,460	Collins, C		
381,531		Telephones, magnetic	Apr. 24, 1888
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No.	Name.	CLASS.	DATE.
367,270	Colman, F. B	Telegraphy, reed	July 26, 1887
373,883	Conant, T. P.	Batteries, secondary, applications	
378,432	Conant, T. P. and Latshaw, Z	Systems of distribution	Feb. 28, 1888
384,562		Locomotion	
385,097	Condict, G. H	Manuela alastria	June 26, 1888
374,778 383,863	Conkling, G	Magneto-electric	
370,007	Connelly, W. A.	Separators Valve-controllers	June 5, 1888 Sept. 13, 1887
381,907	Connolly, T. A. and A. A.		May 1, 1888
374,348	Cook, G. W	Conductors, underground	Dec. 6, 1887
373,925	Copeland, H. P	Girders and columns	Nov. 29, 1887
379,368	Copeland, H. P	Transmitters	Mar. 13, 1888
378,435	Corman, C. A.	Thermostats	
366,305	Cox, H. B.	Galvanometers	
372,657 372,658	Cox, H. B	Bells Batteries, galvanic	
375,441	Cox, H. B	do	
375,442	Cox, H. B		
383,706	Cox, H. B		May 29, 1888
375,925	Crawford, J. and Ker, J. B.	Telephones, systems	Jan. 3, 1888
376,429	Creighton, W. G		Jan. 17, 1888
383,444	Crompton, R. E. B. and Kapp, G		May 29, 1888
368,654 374,456	Crosby, E. H		Aug. 23, 1887 Dec. 6, 1887
379,372	Crouch, F. J		Mar. 13, 1888
383,345	Crouch, F. J	Rheostats	May 22, 1888
382,756	Crowdus, W. A		May 15, 1888
377,884	Crowdus, W. A. and Sutton, H. M.	Regulators	Feb. 14, 1888
380,620	Crowdus, W. A. and Sutton, H. M.	Magneto-electric	Apr. 3, 1888
383,098	Culp, J. D.	Friction generators	
383,105 366,306	Culp, J. D	Switch-stands	
371,555	Curran, J		
374,733	Currie, S. C. C	Railway signals	
384,962	Currie, S. C. C.	do	June 26, 1888
368,655	Currier, H. L.		Aug. 23, 1887
376,862	Curtiss, R. M		
376,863 371,253	Cutting, W. H		
371,436	Daft, L		
372,361	Daft, L		Nov. 1, 1887
369,320	Dalzell, J. II	Conductors, lead-covered	Sept. 6, 1887
369,592	Dalzell, J. II		
369,593	Dalzell, J. II		
369,594 377,742	Dalzell, J. H Daniels, E. O	Lightning-rods	
374,458	Davis, J. P.		
381,220		Telegraphy, quadruplex	Apr. 17 1888
372,363	Deacon, B. R	Couplings, valved	Nov. 1, 1887
379,453		Heaters	
380,554	De Benardos, N	Batteries, secondary	Apr. 3, 1888
373,967	Delany, P. B	Telegraphy, antomatic	Nov. 29, 1887
373,968 378,436		Circuits and systems———————————————————————————————————	
378,437		Telegraphy, printingdo	
381,764		Circuits and systems	
380,646		Telegraphy, railway-car	Apr. 3, 1888
380,647	De Mier, J. R	Connectors	Apr. 3, 1888
381,343	De Mier, J. R		
381,344	De Mier, J. R		
379,689 372,404	Deprez, M. and Abdank-Abakanowicz, B		
369,436	Depuy, A. B.	Cut-outs, electro-magnetic-	
381,765	De Redon, C. F		
382,515	De Redon, C. F	Railway signals	May 8, 1888
372,208	Dermitt, S. W. and W. V	Thermostats	Oct. 25, 1887
373,393	Dewing, J. aud Bennett, D. F.	Wood-working machinery, boring	Nov. 15, 1887
381,915	Dey, H. E.		
367,705 379,766	D'Humy, P. R. de F		
377,994	Dickerson, E. N., jr		
368,195	Dieckmann, G. F		
381,222	Diehl, P	Motors	
369,595	Dietzman, A. S. and Cressey, G	Registers	Sept. 6, 1887
381,539	Dilley, C. M		
375,414 384,350	Doggatt I	Igniting devicesRelays and sounders	Dec. 27, 1887
003,000	2088011, 0	Trongs and Sounders	, 9 and 12, 1000.

378,355 Doubleday, H. M. Lights, systems and appliances Feb. 21, 188 336,469 Doubraya, S. Lights, are, positive feed July 19, 188 336,468 Doubraya, S. Lights, are, positive feed July 19, 188 336,468 Doubraya, S. Lights, are, positive feed July 19, 188 336,468 Doubraya, S. Lights, are, positive feed July 19, 188 336,469 Doubraya, S. Lights, are, positive feed July 19, 188 336,469 Doubraya, S. Lights, are, positive feed July 19, 188 336,269 Deaper, C. Knitting and netting, stepping May 8, 188 326,569 Drawbaugh, D. Clocks, electric Aug. 9, 188 346,569 Drawbaugh, D. Clocks, electric Aug. 9, 188 346,569 Drawbaugh, D. Clocks, electric Aug. 9, 188 366,669 Dawelius, A. Conductors Out. 19, 188 366,769 Dudle, P. H. Recurders Aug. 2, 188 366,769 Dudle, P. H. Recurders Aug. 2, 188 336,769 Easton, J. W. Aug. 2, 188 336,769 Easton, J. W. Aug. 2, 188 336,769 Easton, J. W. Aug. 2, 188 336,769 Easton, J. A. Aug. 2, 188				
St. St. Dooley, J. W. Alarms Mar. 6, 188	No.	Name.	Class.	DATE.
St. St. Dooley, J. W. Alarms Mar. 6, 188	373,394	Dolbear, A. E.	Conductors	Nov. 15, 1887
Sas, 946 Doubledny, H. M.	378,876	Dooley, J. W	Alarms	Mar. 6, 1888
369,833 Doubrava, S.		Doubleday, H. M	Lights, systems and appliances	Feb. 21, 1888
Sat.		Doubleday, H. M	Lights are positive food	
Sab.25.50 Doyle, J				
Say	385,254	Doyle, J	Batteries, secondary	June 26, 1888
367,805 Drawbaugh, D. Clocks, electric Afig. 9, 188	382,593	Draper, C	Knitting and netting, stopping	May 8, 1888
Sept. 6, 17 Sept. 8, C				Apr. 10, 1888
371,557 Dew. S. C. Anti-induction devices July 19, 188 367,698 Dudley, P. H. Recorders July 19, 188 367,698 Dudley, P. H. Recorders July 19, 188 367,698 Dudley, P. H. Recorders July 19, 188 367,935 Dever, R. X. General Science July 12, 188 Sept. 20, 188 Sept		Drawbaugh, D.	Ratteries galvanic	
366,545 Duby, J. M. and Edmester, J. L. Conductors July 19, 188				
366,209 Duwelins, A. I. Conductors July 12, 188 382,461 Dyer, R. N. Meters. Oot. 18, 188 382,461 Dyer, R. N. Telephones, systems May 8, 187,1439 Eastman, W. H. Telephones, mechanical Oot. 11, 188 366,941 Easton, J. W. Magneto-electric July 19, 187, 187, 187, 187, 187, 187, 187, 187	366,654	Duby, J. M. and Edmester, J. L	Conductors	July 19, 1887
S22,461 Dyer, R. N	367,708			Aug. 2, 1887
Segunt S				
ST1,439		Dyer, R. N	Telephones, systems	
				Oct. 11, 1887
State		Easton, J. W	Magneto-electric	July 19, 1887
S83,114 Easton, J. W		Easton, J. W		Nov. 29, 1887
388,114 Easton, J. W		Easton J W	Magneto-electric	May 22 1888
373,061 Easton, L. F.		Easton, J. W	do	May 22, 1888
374,948 E-kert, T. T.	373,061	Easton, L. F	Valve-controllers	
365,971 Eckert, W. H. and Seely, J. A. Telegraphy, fire. July 5, 188 369,280 Edison, T. A. Systems of distribution July 5, 188 369,489 Edison, T. A. do Sept. 6, 188 369,441 Edison, T. A. do Sept. 6, 188 369,442 Edison, T. A. do Sept. 6, 188 369,443 Edison, T. A. do Sept. 6, 188 369,444 Edison, T. A. do Sept. 6, 188 369,444 Edison, T. A. do Sept. 6, 188 369,443 Edison, T. A. Meters Sept. 6, 188 369,444 Edison, T. A. Meters Sept. 6, 188 369,443 Edison, T. A. Meters Sept. 6, 188 370,124 Edison, T. A. Lights, filaments and carbons Sept. 20, 188 370,125 Edison, T. A. Transmission of power Sept. 20, 188 370,125 Edison, T. A. Transmission of power Sept. 20, 188 370,125 Edison, T. A. Sept. 20, 188 370,126 Edison, T. A. Sept. 20, 188 370,136 Edison, T. A. Sept. 20, 188 370,137 Edison, T. A. Sept. 20, 188 370,138 Edison, T. A. Sept. 20, 188 373,737 Edison, T. A. Sept. 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,				Jan. 31, 1888
365,975 Edison, T. A		February W. H. and Sooky I. A	Tolography fire	Dec. 20, 1887
369,489 Edison, T. A		Edison T. A	Systems of distribution	
369,449 Edison, T. A		Edison, T. A	do	Aug. 30, 1887
369,442 Edison, T. A	369,439	Edison, T. A	do	Sept. 6, 1887
369,443 Edison, T. A		Edison, T. A	do	Sept. 6, 1887
370,123		Edison, T. A	do	Sept. 6, 1887
370,124 Edison, T. A		Edison, T. A	Meters	Sept. 20, 1887
370,126 Edison, T. A		Edison, T. A	Lights, filaments and carbons	Sept. 20, 1887
370,127 Edison, T. A		Edison, T. A	Transmission of power	
Sept. 20, 188 Sept. 20, 288 Sept. 20, 28		Edison, T. A	do	
Sept. 20, 188 Sept. 20, 28, 188 Sept. 20		Edison, T. A	do	
Sept. 20, 188				Sept. 20, 1887
Edison, T. A	370,130	Edison, T. A	do	Sept. 20, 1887
September Sept				
Telegraphy, duplex			Magneto-electric	
Separators				
S79,770	377,518	Edison, T. A		Feb. 7, 1888
State				
State Stat				
Magneto-electric				
Society	379,944	Edison, T. A	Magneto-electric	Mar. 27, 1888
380,102 Edison, T. A			Motors	Mar. 27, 1888
Sac Harden Systems of distribution May Sac Sac Sac Systems of distribution May Sac Sac Sac Sac Systems of distribution May Sac			bystems of distribution	Mar. 27, 1888
Systems of distribution				
Saz,416 Edison, T. A				May 8, 1888
Systems of distribution June 26, 186 Systems of distribution June 26, 186 St, 430 Edison, T. A. and Gilliland, E. T Telegraphy, railway-car June 19, 188 St, 542 Eagan, C. E Batteries, galvanic Apr. 24, 188 St, 548 Egleston, T Conductors Jan. 24, 188 St, 549 St, 542 Eickemeyer, R Magneto-electric Sept. 6, 188 St, 544 Eickemeyer, R Magneto-electric Sept. 6, 188 St, 544 Eickemeyer, R Magneto-electric Sept. 6, 188 St, 544 Eickemeyer, R Magneto-electric Sept. 6, 188 St, 549 St	382,416	Edison, T. A	Phonographs	May 8, 1888
384,830			Createness of distribution	May 8, 1888
Batteries, galvanie				
376,818 Egleston, T				
Magneto-electric Sept. 6, 188 375,542 Eickemeyer, R	376,818	Egleston, T	Conductors	Jan. 24, 1888
375,542 Eickemeyer, R			Telephones, magnetic	
375,614 Eickemeyer, R. Igniting devices. Dec. 27, 185 377,996 Eickemeyer, R. Magneto-electric. Feb. 14, 188 377,997 Eickemeyer, R. Electro-magnets, machines for winding. Feb. 14, 188 30,907 Eisenhardt, C. A. (Reis. of 331,121). Induction-coils. Mar. 6, 188 375,279 Emery, E. C. Insulators. Dec. 20, 188 369,238 Emminger, D. P. Conductors. Aug. 30, 188 374,528 Entz, J. B. Igniting devices. Dec. 6, 188 374,528 Entz, J. B. Igniting devices. Dec. 6, 188 382,420 Epstein, I. Batteries, secondary. May. 2, 188 383,216 Epstein, I. do May. 22, 188				
377,996 Eickemeyer, R. Magneto-electric Feb. 14, 188 377,997 Eickemeyer, R. Electro-magnets, machines for winding Feb. 14, 188 10,907 Eisenhardt, C. A. (Reis. of 331,121.) Induction-coils Mar. 6, 188 382,518 Eldred, H. H. Telephones, systems May 8, 188 375,279 Emery, E. C. Insulators Dec. 20, 188 369,238 Emminger, D. P Conductors Aug. 30, 188 379,509 Enos, J. A Locomotion Mar. 13, 188 374,528 Entz, J. B Igniting devices Dec. 6, 188 382,420 Epstein, L Batteries, secondary May 8, 188 383,216 Epstein, L do May 22, 188				
377,997 Eickemeyer, R Electro-magnets, machines for winding Feb. 14, 188 10,997 Eisenhardt, C. A (Reis. of 331,121.) Mar. 6, 188 382,518 Eldred, H. H Telephones, systems May 8, 188 375,279 Emery, E. C Insulators Dec. 20, 188 369,238 Emminger, D. P Conductors Aug. 30, 188 379,509 Enos, J. A Locomotion Mar. 13, 188 374,528 Entz, J. B Igniting devices Dec. 6, 188 382,420 Epstein, L Batteries, secondary May 8, 188 383,216 Epstein, L do May 22, 188	377,996	Eickemeyer, R	Magneto-electric	Feb. 14, 1888
382,518 Eldred, H. H. Telephones, systems May 8, 188 375,279 Emery, E. C. Insulators Dec. 20, 188 369,238 Emminger, D. P. Conductors Aug. 30, 188 379,509 Enos, J. A Locomotion Mar. 13, 188 374,528 Entz, J. B Igniting devices Dec. 6, 188 382,420 Epstein, L Batteries, secondary May 8, 188 383,216 Epstein, L -do May 22, 188	377,997	Eickemeyer, R	Electro-magnets, machines for winding	Feb. 14, 1888
375,279 Emery, E. C. Insulators Dec. 20, 188 369,238 Emminger, D. P. Conductors Aug. 30, 188 379,509 Enos, J. A. Locomotion Mar. 13, 188 374,528 Entz, J. B. Igniting devices Dec. 6, 188 382,420 Epstein, L. Batteries, secondary May 8, 188 383,216 Epstein, L. do May 22, 188				
369,233 Emminger, D. P Conductors Aug. 30, 188 379,509 Enos, J. A Locomotion Mar. 13, 188 374,528 Enter, J. B Igniting devices Dec. 6, 188 382,420 Epstein, L Batteries, secondary May 8, 188 383,216 Epstein, L do May 22, 188			Insulators	Dec 20 1887
379,509 Enos, J. A Locomotion Mar. 13, 188 374,528 Entz, J. B Igniting devices Dec. 6, 188 382,420 Epstein, L Batteries, secondary May 8, 188 383,216 Epstein, L May 22, 188			Conductors	Aug. 30, 1887
374,528 Entz, J. B. Igniting devices. Dec. 6, 188 382,420 Epstein, L. Batteries, secondary. May 8, 188 383,216 Epstein, L. May 22, 188	37 9,509.	Enos, J. A	Locomotion	Mar. 13, 1888
383,216 Epstein, L do May 22, 188	374,528	Entz, J. B	Igniting devices	
383,450 Essick S. V. Telegraphy printing May 20 188	383.216	Epstein L	Datteries, secondary	May 22 1888
	383,450	Essick, S. V	Telegraphy, printing	May 29, 1888

No.	Name.	CLASS.	DATE.
368,576	Euphrat, F	Locomotion	Aug. 23, 1387
372,846	Evans, W. W.	Transmitters	Nov. 8, 1887
378,668	Exley, R.	Applications, general	Feb. 28, 1888
378,298 380,426	Farmer, M. G	Telephones, electricdodo	Feb. 21, 1888 Apr. 3, 1888
380,427	Farmer, M. G	do	Apr. 3, 1888
381,004	Farmer, M. G	Niekel plating	Apr. 10, 1888
373,519	Farnham, I. H	Telephones, systems	Nov. 22, 1887
375,543	Farnham, I. H	Telephones, systems, automatic	Dec. 27, 1887
375,544 379,532	Farnham, I. H	BellsConductors, underground	Dec. 27, 1887 Mar. 13, 1888
380,752	Farnham, I. H		Apr. 10, 1888
369,929	Farrar, J. H	Railway signals	Sept. 13, 1887
380,316	Farrar, J. H.		Apr. 3, 1888
379,511	Farrar, W. B		Mar. 13, 1888
375,702 366,717	Fasoldt, E. C	Lights, systems and appliances Batteries, galvanic	Dec. 27, 1887 July 19, 1887
379,567	Faure, C. A	Batteries, secondary	Mar. 20, 1888
382,599	Faure, C. A		May 8, 1888
383,560	Faure, C. A	Batteries, secondary	May 29, 1888
383,561	Faure, C. A	Locomotion	May 29, 1888
383,562 382,421	Faure, C. A		May 29, 1888 May 8, 1888
370,052	Ferguson, A. C.	Lights, systems and appliances	Sept. 20, 1887
381,992	Fessenden, G. B.	Recorders	May 1, 1888
381,993	Fessenden, G. B.		May 1, 1888
365,982 370,691	Field S. D.	Telegraphy, printingdo	July 5, 1887 Sept. 27, 1887
374,404		Rheostats	Dec. 6, 1887
375,346	Field, S. D.	Locomotives	Dec. 27, 1887
380,103	Field, S. D	Locomotion	Mar. 27, 1888
380,879		do	Apr. 10, 1888
380,880 381,768	Field S D	Motors	Apr. 10, 1888
384,685		Locomotion	
377,553	Finck, J	Igniting devices	Feb. 7, 1888
375,617	Firman, L. B	Telegraphy, fire	Dec. 27, 1887
372,409 371,443		Thermostats	
383,563		Telephones, calls	
383,564	Fisher, F. E	Motors	May 29, 1888
383,565	Fisher, F. E		May 29, 1888
383,566 383,567	Fisher, F. E	Magneto-electric	May 29, 1888
371,570	Fisher, J. J.	Lights, sockets and keys	Oct. 18, 1887
381,228	Fiske, B. A	Motors	Apr. 17, 1888
385,259	Fiske, B. A.		
370,328 368,284	Flanders, B. S	Telegraphy, fire	
370,134		Batteries, secondary	
377,745	Foote, T. M	Batteries, galvanic	Feb. 14, 1888
375,280	Forbes, F. A	Connectors	
366,824 -368,662	Forbes, G	Galvauometers	
371,752	Foster, G. W		
384,901	Foster, H. A.	Locomotion	June 19, 1888
374,669	Freeman, C. R.		
367,901 380,430	Freeman, J. P		
383,520	Fritts, C. E		May 29 1888
367,205	Frost, J. W.	Telegraphy, fire	July 26, 1887
379,865	Fuller, F. L	Recorders	Mar. 20, 1888
367,341	Fuller, L. B Fullerton, G. A	Medical and surgical, baths	
371,189 $366,212$	Galvin, J. A	Medical and surgical, body-wear	
366,660	Gardner, H. R.	Applications, general	July 19, 1887
377,851	Gardner, P. G	Blasting and fuses	Feb. 14, 1888
373,064	Gassner, C., jr	Batteries, galvanic	Nov. 15, 1887
381,772 382,299	Geary, J Gedge, B. H	Annunciators Railway signals	
373,452	Gennert, E. F		
381,921	Gennert, E. F	Gas fittings	May 1, 1888
383,946	Ghegan, J. J		
384,200 379,572	Ghegan, J. J	Batteries, secondary	
382,358	Gibson, C. D. P	(10	May 8, 1888

No.	Name.	Class.	DATE.
383,640	Gibson, C. D. P	Batteries, secondary, applications	May 29, 1888
378,927	Gibson, E. T.	Telegraphy, fire	Mar. 6, 1888
375,063	Gibson, J. H	Railway signals	Dec. 20, 1887
383,220	Gill, J. B	Telegraphy, fire	
383,725	Gill, W. E. and Segerdahl, R.	Annunciators	
366,164 384,201	Gillam, M. M.	Medical and surgical, baths Telephones, details	June 5 1888
371,445		Bells	Oct. 11, 1887
379,459	Glasgow, W. and Stevens, S. S.		Mar. 13, 1888
384,755	Godding, M. O	Railway signals	June 19, 1888
367,754	Goodridge, W. M		Aug. 2, 1887
371,260 384,151	Goodridge, W. M	Telephones, switches	Oct. 11, 1887
381,234	Graham, J. M	Photography, galleries Telephones, electric	June 5, 1888 Apr. 17, 1888
371,681	Grant, J	Insulating material	Oct. 18, 1887
374,959	Gray, J	Magneto-electric	Dec. 20, 1887
384,152	Greaves, J.	Applications, general	June 5, 1888
374,738	Greene, E. E	Conductors, underground	Dec. 13, 1887
369,447 384,440	Greenfield, F. T	InsulatorsCut-outs, mechanical	Sept. 6, 1887 June 12, 1888
374,673	Griscom, W. W	Batteries, secondary, applications	Dec. 13, 1887
381,693	Gross, A	Compasses	Apr. 24, 1888
384,570	Grovesteen, M. W. and Jahn, F. G.	Alarms	June 12, 1888
373,397	Guest, J. H	Registers	Nov. 15, 1887
383,464 378,440	Gulcher, R. J.	Batteries, thermal	May 29, 1888 Feb. 28, 1888
376,149	Haight, H. J	Telethermometers	Jan. 10, 1888
376,880	Haight, H. J		Jan. 24, 1888
372,313	Haines, R.	Lamp shades	Nov. 1, 1887
379,060	Hamilton, E. M.	Relays and sounders	Mar. 6, 1888
379,061 379,062	Hamilton, E. M.	Circuit-closers	Mar. 6, 1888
379,063	Hamilton, E. M.	Keys	Mar. 6, 1888 Mar. 6, 1888
379,064	Hamilton, E. M	Relays and sounders	Mar. 6, 1888
384,035	Hamilton, J. B	Separators	June 5, 1888
373,399	Hamilton, J. R	Electrodes	
368,764 368,765	Hammer, W. J	Connectors	Aug. 23, 1887
373,975	Hammond, B. M	Cut-outs, thermal	
371,755	Hard, J. R	Induction-coils	
380,435	Harding, A	Lights, are	Apr. 3, 1888
382,976	Hardinge, H. W	Telethermometers	May 15, 1888
380,568 367,294	Harris, H. I	Medical and surgical, body-wear	Apr. 3, 1888 July 26, 1887
368,766	Hart, M. J	Towers	Aug. 23, 1887
377,894	Hart, M. J	do	Feb. 14, 1888
373,289	Hart, W. H	Conductors, underground	Nov. 15, 1887
380,757	Hart, W. H. and Goodfellow, J. T	do	Apr. 10, 1888
371,936 371,937	Hartman, J., jr ———————————————————————————————————	Rheostats	Oct. 25, 1887 Oct. 25, 1887
377,895		Clocks, electric	
384,362		Ships' logs	
378,679	Haskins, C. H	Telephones, systems	Feb. 28, 1888
368,336		Alarms, burglar	
369,640 377,487		Lights, areElectro-deposition	
370,477	Haves, H. V.	Telephones, magnetic	Sept. 27, 1887
377,612	Hayes, H. V.	Telephones, electric	Feb. 7, 1888
381,780	Hayes, H. V.	Galvanometers	Apr. 24, 1888
365,994		Telegraphy, printing	
366,166 366,628		do	
371,840		Connectors	
379,956		Regulators	
380,114	Heisler, C	Cut-outs, electro-magnetic	Mar. 27, 1888
380,115	Heisler, C.	Magneto-electric	Mar. 27, 1888
380,202 368,948	Helmer, P	Lights, sockets and keys Dental instruments	
10,940	Helmer, P(Reis. of 368,948.)	Dental instruments	
382,231	Hen, L. and Weinmann, R.	Igniting devices	May 1, 1888
372,468	Hering, C	Batteries, secondary	Nov. 1, 1887
379,221	Hering, C.		
382,159 378,681	Hermite, E. and Cooper, C. F		Feb. 28 1888
379,465	Hermite, E. and Cooper, C. F		Mar. 13, 1888
381,372	Hermite, E. and Cooper, C. F	do	Apr. 17, 1888
367,627	Herrington, J	Car-brakes	Aug. 2, 1887

No.	Name.	CLASS.	DATE.
385,308	Hewett, E. M	Batteries, galvanic	June 26, 1888
379,535	Hewitt, W	Conductors	Mar. 13, 1888
373,138	Hexamer, C. J	Clocks, electric	Nov. 15, 1887
376,651	Hexamer, C. J	Valve-controllers	Jan. 17, 1888
377,073 377,615	Hibbard, A. S. Higgins, E. E. and James, J.	Cut-onts, thermal Lights, are	Jan. 31, 1888 Feb. 7, 1888
368,149	Higgins, P. J.	Conductors	Aug. 9, 1887
372,910	Higham, D.	Motors	Nov. 8, 1887
373,739	Higham, D.	Regulators	Nov. 22, 1887
374,406	Higham, D.	do	Dec. 6, 1887
377,255	Higham, D.	Motors	Jan. 31, 1888
379,466 379,467	Higham, D	do	Mar. 13, 1888 Mar. 13, 1888
379,783	Hill, E	Operating ordnance	Mar. 20, 1888
378,547	Hill, W. S	Regulators	
368,088	Hinds, C. H	Friction generators	Aug. 9, 1887
378,250	Hinton, J. R. H		
371,583	Hobby, A. S.	Indicators	Oct. 18, 1887
367,630 374,871	Hochhausen, W	Batteries, secondary, applications	
374,872	Hochhausen, W		Dec. 13, 1887 Dec. 13, 1887
377,256	Hoffman, J. W.	Annunciators	
379,396	Hogan, G. L	Igniting devices	Mar. 13, 1888
371,940	Holcombe, A. G.	Telephones, systems	Oct. 25, 1887
377,383	Holly, W. A. and Malin, W.	Grain meters	
374,792 378,677	Holt, G. D	Conductors, underground Igniting devices	
382,001	Holtzer, C. W	do	
367,002	Homans, C. A	Lights, arc, gravity feed, gear	July 19, 1887
373,934	Homans, C. A	Lights, arc, gravity feed, frictional	
379,069	Hopkins, W. W.	Locomotion	Mar. 6, 1888
379,070	Hopkins, W. W.		
368,212 382,811	Hornaday, T. B		
381,246	Hotelikiss, Z. P.		
371,757	Hott, A. L	Telephones, supports	Oct. 18, 1887
367,523	Hough, B. F	Alarms, burglar	Aug. 2, 1887
380,437	House, W. D		
380,438	House, W. D	Time signals	Apr. 3, 1888
375,160 372,797	Howell, J. W.	Time signalsSystems of distribution	
372,798	Howell, J. W	do	
372,799	Howell, J. W.		_ ,
373,021	Howell, J. W		
377,488	Howell, J. W	Systems of distribution	
367,003 367,004	Huewe, G. A.		
369,247	Huguet, H. A. B.	Inhalers and respirators	
375,749	Humans, W	Electro-magnets	
375,750	Humans, W	Magneto-electric	
375,751	Humans, W		
377,107 381,555		Locomotiondo	
381,556		do	
382,876		do	
382,877	Hunter, R. M.	do	May 15, 1888
383,575	Hunter, R. M	Batteries, secondary	May 29, 1888
384,576	Hunter, R. M.	Locomotiondodo	June 12, 1888
384,908 384,909		do	
384,910		do	
384,911	Hunter, R. M.	do	June 19, 1888
384,912	Hunter, R. M.	do	June 19, 1888
384,934		do	
385,053 385,054		do	
385,055		do	
385,180	Hunter, R. M.	do	June 26, 1888
366,319	Hurley, J. P. and Perkins, G. F	Telephones, mechanical	July 12, 1887
381,789	Immisch, M	Magneto-electric	Apr. 24, 1888
367,042	Irwin, J. H.	Telephones, electric	July 26, 1887
367,402 10,915	Irwin J H (Reis of 200 266.)	Lights, systems and appliances Telephones, electric	Mar 27 1888
380,261		Medical and surgical, baths	
375,633		Insulating material	
		Conductors	
369,793 3 7 6,307		Magneto-electric	

No.	NAME.	CLASS.	Date.	
379,073	Jehl, F	Systems of distribution	Mar. 6, 1888	
373,369	Jenney, C. D	Regulators	Nov. 15, 1887	
369,989	Jensen, H. P. F., Webb, B. W., and Jeusen, J.	Bells	Sept. 13, 1887	
378,202	Jensen, H. P. F., Webb, B. W., and Jensen, J.	Time alarms	Feb. 21, 1888	
370,193	Jermain, S. P.	Telephones, supports	Sept. 20, 1887	
373,073	Joerke, W. G.	Alarms	Nov. 15, 1887	
381,382	Johnson, E. H	Telephones, electric	Apr. 17, 1888	
375,876	Johnson, I. La R.	Valve-controllers	Jan. 3, 1888	
366,324 374,072	Johnson, W. S.	do	July 12, 1887 Nov. 29, 1887	
378,137	Johnson, W. S.	Thermostats	Feb. 21, 1888	
379,201	Johnson, W. S.	do	Mar. 6, 1888	
382,165	Johnson, W. S.	do	May 1, 1888	
381,251	Jones, F. W.	Telegraphy, dynamo	Apr. 17, 1888	
381,839	Jones, F. W	do	Apr. 24, 1888	
366,777	Judd, C. B	Medical and surgical, body-wear	July 19, 1887	
372,805	Jungst, G	Transmitters		
375,676	Julien, E	Motors	Dec. 27, 1887	
384,447	Tulion F	Batteries, secondary, applications	June 12, 1888	
384,580 384,581	Julien E.	Locomotion	June 12, 1888 June 12, 1888	
381,446	Kammer, von der J	Cut-outs, mechanical	Apr. 17, 1888	
366,400	Keating, A. S.	Keys	July 12, 1887	
384,042	Keilholtz, P. O	Lightning-arresters	June 5, 1888	
382,474	Kellogg, M. G.	Telephones, systems	May 8, 1888	
382,475	Kellogg, M. G	do	May 8, 1888	
382,476	Kellogg, M. G	do	May 8, 1888	
382,477	Kellogg, M. G	do	May 8, 1888	
375,636		Fire extinguishers, chemical		
372,851 381,700	Kelly, J. F	Magneto-electric	Nov. 8, 1887 Apr. 24, 1888	
378,320	Kennedy, R.	Induction-coils	Feb. 21, 1888	
378,321	Kennedy, R	do	Feb. 21, 1888	
381,794	Kennedy, R.	Systems of distribution	Apr. 24, 1888	
368,674		Valve-controllers	Aug. 23, 1387	
383,734	Keyes, F. E	Insulators	May 29, 1888	
371,199	Kimball, A. S. and Brownell, G. L.	Applications, tools and machines		
371,893	King, F	Batteries, secondary, applications	Oct. 18, 1887	
372,026 372,027	Kintner, C. J	Magnetic locks and bolts	Oct. 25, 1887	
372,028	Kintner C J	do	Oct. 25, 1887	
372,029	Kintner, C. J.	do	Oct. 25, 1887	
384,856		do		
375,295		Connectors		
380,394	Kissell, A. S	Thermostats.		
372,808	Kneuper, F. J	Medical and surgical, body-wear		
368,596	Knight, W. H	Rheostats	Aug. 23, 1887	
377,622	Knight, W. H	Locomotiondo	Feb. 7, 1888	
382,990 384,044		Rheostats		
379,792	Knowles, E. R.			
381,254	Knowles, E. R.		Apr. 17, 1888	
376,661	Kölzer, J			
379,203	Kölzer, J	do		
371,331	Kornmüller, G	Motors		
373,407	Kress, G. R			
366,173	Kruesi, J			
366,174 368,342	Kruesi, J Kunhardt, D			
379,016	Kunhardt, D			
368,955	Lacy, F. H			
370,794	Lahmeyer, W			
379,074	Lambdin, C	Telephones, switches	Mar. 6, 1888	
372,155		Relays and sounders		
366,407	Lange, P	Cut-outs, mechanical	July 12, 1887	
366,408 366,409	Lange, P	Electro-magnets	July 12, 1887	
374,843		Connectors		
383,647		Rheostats		
383,648		Magneto-electric		
383,649	Lange, P.	Galyanometers	May 29, 1888	
366,410	Lange, P. and Shallenberger, O. B.	do	July 12, 1887	
374,842	Lange, P. and Shallenberger, O. B	Cut-outs, thermal	Dec. 13, 1887	
375,756		Lightning-rods		
376,323	Leber, L. H	Lights, incandesceut	Jan. 10, 1888	
383,184 372,475	Leggo W A	Purifying water Telegraphy, automatic	Nov. 1 1887	
372,475	Leggo, W. A.	relegraphy, automatic	1, 1007	

Section Sect	No.	Name.	CLASS.	DATE.
Section Sect	377,626	Le Grande, W. W	Railway signals	Feb. 7, 1888
1999 1999	381,260	Leighton, J. T.	Medical and surgical, body-wear	Apr. 17, 1888
Magneto-electric			Surgery, miscellaneous	Jan. 17, 1888
366,673 Lemp, H. and Wightman, M. J.				
Say, 391			Lights incondescent	Jan. 10, 1888
Strong			Cut-outs, thermal	June 5 1888
368,272			Conductors, underground	Oct. 4, 1887
17,762			do	Jan. 24, 1888
10,956		Linville, J. H	Telegraphy, printing	Aug. 16, 1887
Telephones, systems, automatic Nov. 1, 1857		Listor I T (Roje of 247 247 d	Lights filements and early as	Feb. 14, 1888
Telegraphy, fire	372.378		Telephones systems automatic	Nov 1 1887
177,110 Logue, W. S. Circuits and systems Jan. 31, 1888 366,9194 Loomis, O. P Lights, are, gravity feed, gear Aug. 30, 1887 369,349 Loomis, O. P Lights, are, gravity feed, frictional Sept. 6, 1887 381,394 Loomis, O. P Magneto-electric Mar. 6, 1888 381,393 Love, J. C. Locomotion Apr. 17, 1888 Apr. 17, 1888 Apr. 18,193 Locomotion Apr. 17, 1888 Apr. 17, 1888 Apr. 18,193 Locomotion Apr. 18,193 Locomotion Apr. 18,193 Locomotion Apr. 18,193 Locomotion Apr. 19,193 Locomotion Apr. 19	379,404	Lockwood, W. V.		
399,349 Joomis, O. P. Lights, arc, gravity feed, frictional Sept. 6, 1887 3878,892 Loomis, O. P. Magneto-electric Magneto-gravity Magneto-		Logue, W. S.		
378,892 Loomis, O. P. Magneto-electric Apr. 17, 1888 381,394 Loomis, O. P. D. Ado Apr. 17, 1888 381,395 Love, J. C. and Snediker, J. F. Cars, steam, street Apr. 17, 1888 377,397 Ladlow, W. I. Conductors Feb. 7, 1888 377,397 Ladlow, W. I. Conductors Feb. 7, 1888 377,397 Ladlow, W. I. Conductors Feb. 7, 1888 377,397 Ladlow, W. I. Conductors, underground Oct. II, 1887 378,2938 Mace, T. Lights, filaments and carbons Feb. 21, 1888 Machine, J. C. Thermostats July 5, 1887 389,471 Mackie, R. Magneto-electric May 1, 1888 Machine, A. F. Enterties, secondary May 1, 1888 Machine, A. F. Batterfes, secondary May 1, 1888 Machine, A. F. Batterfes, secondary May 1, 1888 Machine, I. Telegraphy, printing Am. 2, 1887 Magneto-electric May 1, 1888 Machine, I. do July 2, 1887 Magneto-electric July 12, 1888 Magneto-electric July 12, 1887 Magneto-electric July 12, 1888 Magneto-electric July 12, 1888 Magneto-electric Magneto-electr		Loomis, O. P	Lights, arc, gravity feed, gear	
381,394 Loomis, O. P.		Loomis, O. P	Lights, arc, gravity feed, frictional	
381,395 Love, J. C.				
381,396 Love, J. C. and Snediker, J. F. Cars, steam, street Apr. 17, 1888 371,292 Lynch, J. Conductors Feb. 7, 1888 371,292 Lynch, J. Conductors Feb. 7, 1888 366,176 Mackey, J. C. Thermostats July 5, 1887 Magneto-electric May 1, 1888 366,764 Macrae, R. and Tavener, C. F. Cut-outs, mechanical July 1, 1887 Magneto-electric May 1, 1888 367,720 Malnken, H. Telegraphy, printing Aug. 2, 1887 Aug. 2, 1887 Magneto-electric May 1, 1888 Magneto-electric May 1, 1888 Magneto-electric				
377,397 Ludlow W. I. Conductors Feb. 7, 1888 371,202 Lynch J. Conductors Conductors Conductors Conductors Conductors Sept. 21, 1887 378,258 Mace, T. Lights, filaments and carbons Feb. 21, 1888 383,61,748 Mackey, J. C. Thermostats July 5, 1887 383,174 Mackie, R. Magneto-electric May 1, 1888 383,066,634 Manken, H. Telegraphy, printing May 1, 1888 383,436 Mahnken, H. Telegraphy, printing Aug. 2, 1887 385,911 Mahnken, H. Telegraphy, printing Aug. 2, 1887 385,415 Mahnken, H. do Aug. 16, 1887 373,145 Main, W. Magneto-electric Nov. 15, 1887 373,145 Main, W. Magneto-electric Nov. 15, 1887 373,145 Main, W. Magneto-electric Nov. 15, 1887 384,322 Mallett, E. J. Telegraphy, printing June 12, 1888 384,322 Mallett, E. J. Telegraphy, printing June 12, 1888 384,322 Mallett, E. J. Telegraphy, printing June 12, 1888 384,322 Mallett, E. J. Telegraphy, printing June 12, 1888 384,323 Mallett, E. J. Telegraphy, printing June 12, 1888 384,323 Mallett, E. J. Telegraphy, printing June 12, 1888 384,323 Mallett, E. J. Telegraphy, printing June 12, 1888 384,324 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing June 12, 1888 384,325 Mallett, E. J. Telegraphy, printing				
378,258 Mace, T	377,397	Ludlow, W. I	Conductors	Feb. 7, 1888
366,176 Mackie, R. Magneto-electric May, 1, 1888 366,634 Marene, R. and Tavener, C. F. Cut-outs, mechanical July 12, 1887 368,541 Mahnken, H. Telegraphy, printing Aug., 2, 1887 384,455 Mahnken, H. Debut, C. L. do June 12, 1888 366,178 Mahnken, H. Debut, C. L. do June 12, 1888 366,178 Mahnken, H. Debut, C. L. do July 12, 1887 366,229 Maiche, L. Telegraphy, automatic July 12, 1887 373,145 Main, W. Magneto-electric Nov. 15, 1887 373,145 Main, W. Magneto-electric Nov. 15, 1887 373,145 Main, W. Magneto-electric Nov. 16, 1887 373,145 Main, W. Debut, Main, W. Debut, Marene, May, 1, 1888 344,322 Mallett, E. J. Telegraphy, printing June 12, 1888 344,323 Mallett, E. J. Telegraphy, printing June 12, 1888 344,324 Mallett, E. J. Telegraphy, printing June 12, 1888 344,325 Mallett, E. J. Telegraphy, printing June 12, 1888 344,326 Mallett, E. J. Telegraphy, printing June 12, 1888 344,328 Mallett, E. J. Telegraphy, printing June 12, 1888 34,328 Mallett, E. J. Relays and sounders June 12, 1888 34,328 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June 12, 1888 34,329 Mallett, E. J. Relays and sounders June		Lynch, J	Conductors, underground	
383_174	366 176			
366,644 Macrae, R. and Tavener, C. F. Cut-outs, mechanical July 12, 1887 387,720 Mahnken, H Telegraphy, printing Aug. 2, 1887 384,455 Mahnken, H do				
382,048 Madden, A. F. Batteries, secondary May 1, 1888		Macrae, R. and Tavener, C. F	Cut-outs, mechanical	
368,541 Mahnken, H	382,098	Madden, A. F	Batteries, secondary	
Saf, 455				
366,128 Mahnken, H. and Healy, C. L				
Main W	. /			
Majn W				
Say Say Mallett, E. J	373,145			
Sala Sala Mallett, E. J		Main, W	do	
Sal, 322 Mallett, E. J Relays and sounders June 12, 1888				
S84,323 Mallett, E. J				
384,325 Mallett, E. J				
September Sept	384,324			
372,423				
S71,336				
Septon				
Sept. 13, 1887 Sept		Magnay, S. W	Batteries, galvanic	Aug. 9, 1887
Sept. 13, 1887		Markland, W. H	Valve-controllers	
S80,955 Marston, F. DuP Telephones, electric Apr. 10, 1888 369,256 Martin, M Telephones, magnetic Aug. 30, 1887 Telephones, magnetic Aug. 30, 1887 Telephones, magnetic Dec. 20, 1887 S80,655 Martin, M do Dec. 20, 1887 Dec				
369,256 Martin, M				
Telegraphy, fire				
375,299 Martin, M				
Sal,709 Martin, M		Martin, M	do	Dec. 20, 1887
368,405 Marvin, H. N do Aug. 16, 1887 368,406 Marvin, H. N do Aug. 16, 1887 377,319 Mason, C. T Locomotion Jan. 31, 1888 382,766 Mason, C. T do Feb. 21, 1888 382,766 Massey, A. P Fluid pressure railway brakes May 15, 1888 367,348 Mather, R. I. Magneto-electric Feb. 7, 1888 377,683 Mather, R. II. Magneto-electric Feb. 7, 1888 381,398 Mather, R. H Regulators Feb. 7, 1888 381,568 Mather, R. H Magneto-electric Apr. 24, 1888 382,714 Mather, R. H Motors May 15, 1888 382,715 Mather, R. H Motors May 15, 1888 382,786 Mather, R. H Regulators May 15, 1888 372,986 Mather, R. H Regulators May 29, 1888 372,986 Mather, R. H Regulators May 29, 1888 381,938 McCoy, J. A Telephones, systems, automatic July 26, 1887 381,938	380,655	Martin, M	do	Apr. 3, 1888
368,406 Marvin, H. N		Martin, M.	Motors	Apr. 24, 1888
377,319				
378,259 Mason, C. T		Mason, C. T	Locomotion	Jan. 31, 1888
S82,766 Massey, A. P	378,259	Mason, C. T	do	Feb. 21, 1888
377,683 Mather, R. II. Magneto-electric Feb. 7, 1888 377,684 Mather, R. H. Regulators Feb. 7, 1888 381,398 Mather, R. H. do Apr. 17, 1888 381,568 Mather, R. H. Magneto-electric Apr. 17, 1888 382,714 Mather, R. H. Magneto-electric May 15, 1888 382,715 Mather, R. H. May 15, 1888 383,651 Mather, R. H. Regulators May 29, 1888 372,986 Mathis, S. Lights, arc, positive feed Nov. 8, 1887 367,219 McCoy, J. A. Telephones, systems, automatic July 26, 1887 381,938 McCoy, J. A. Telephones, systems, automatic May 1, 1888 368,221 McDaniel, C. W. Cut-outs, mechanical Aug. 16, 1887 382,483 McDougall, S. T. Explosives Aug. 23, 1887 382,483 McDougall, W. M. Locomotion May 8, 1888 360,124 McElroy, J. F. Lighting devices July 5, 1887 370,801 McGowen, J. J. Igniting devices Oct. 4,	382,766	Massey, A. P.	Fluid pressure railway brakes	May 15, 1888
Regulators		Mast, L. L	Lightning-rods	July 26, 1887
381,398 Mather, R. H.		Mather, R. H.	Regulators	Feb. 7, 1888
381,568 Mather, R. H. Magneto-electric Apr. 24, 1888 382,714 Mather, R. H. Motors May 15, 1888 382,715 Mather, R. H. do May 15, 1888 383,651 Mather, R. H. Regulators May 29, 1888 372,986 Mathis, S Lights, arc, positive feed Nov. 8, 1887 367,219 McCoy, J. A Teleprones, systems, automatic July 26, 1887 381,938 McCoy, J. A Telephones, systems, automatic May 1, 1888 368,221 McDaniel, C. W Cut-outs, mechanical Aug. 16, 1887 368,678 McDougall, S. T Explosives Aug. 23, 1887 382,483 McDougall, W. M Locomotion May 8, 1888 366,124 McElroy, J. F Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 4, 1887		Mather, R. H.	do	Apr. 17, 1888
882,715 Mather, R. H		Mather, R. H.	Magneto-electric	Apr. 24, 1888
383,651 Mather, R. H Regulators May 29, 1888 372,986 Mathis, S Lights, arc, positive feed Nov. 8, 1887 367,219 McCoy, J. A Telegraphy, automatic July 26, 1887 381,938 McCoy, J. A Telephones, systems, automatic May 21, 1888 368,221 McDaniel, C. W Cut-outs, mechanical Aug. 16, 1887 368,678 McDougall, S. T Explosives Aug. 23, 1887 382,483 McDougall, W. M Locomotion May 8, 1888 366,124 McElroy, J. F Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887		Mather, R. H.	Motors	May 15, 1888
372,986 Mathis, S		Mather, R. H.	Regulators	May 20 1888
367,219 McCoy, J. A Telegraphy, automatic July 26, 1887 381,938 McCoy, J. A Telephones, systems, automatic May 1, 1888 368,221 McDaniel, C. W Cut-outs, mechanical Aug. 16, 1887 368,678 McDougall, S. T Explosives Aug. 23, 1887 382,483 McDougall, W. M Locomotion May 8, 1888 366,124 McElroy, J. F Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887		Mathis S	Lights, arc, positive feed	Nov. 8, 1887
381,938 McCoy, J. A. Telephones, systems, automatic May 1, 1888 368,221 McDaniel, C. W. Cut-outs, mechanical Aug. 16, 1887 368,678 McDougall, S. T. Explosives Aug. 23, 1887 382,483 McDougall, W. M. Locomotion May 8, 1888 366,124 McGlroy, J. F. Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J. Igniting devices Oct. 4, 1887 372,550 McKnight, E. Conductors, lead-covered Nov. 1, 1887		McCoy, J. A	Telegraphy, automatic	July 26, 1887
368,221 McDaniel, C. W Cut-outs, mechanical Aug. 16, 1887 368,678 McDougall, S. T Explosives Aug. 23, 1887 382,483 McDougall, W. M Locomotion May 8, 1888 366,124 McElroy, J. F Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887	381,938	McCoy, J. A	Telephones, systems, automatic	May 1, 1888
382,483 McDougall, W. M. Locomotion May 8, 1888 366,124 McElroy, J. F. Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igning devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887		McDaniel, C. W		
366,124 McElroy, J. F Lights, systems and appliances July 5, 1887 370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887				
370,801 McGowen, J. J Igniting devices Oct. 4, 1887 372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887				
372,550 McKnight, E Conductors, lead-covered Nov. 1, 1887			Igniting devices	Oct. 4, 1887
367,350 McLaughlin, J. F Telegraphy, fire, alarms and extinguishers _ July 26, 1887	372,550	McKnight, E	Conductors, lead-covered	Nov. 1, 1887
	367,350	McLaughlin, J. F.	Telegraphy, are, alarms and extinguishers	July 26, 1887

No.	Name.	CLASS.	Date.
367,650	McLaughlin, J. F	Telegraphy, printing	Aug. 2, 1887
368,411	McLaughlin, J. F	do	Aug. 16, 1887
369,954	McLaughlin, J. F.	Type-writing	
375,559	McLaughlin, J. F	Batteries, galvanic	Dec. 27, 1887
375,560 375,561	McLaughlin, J. F	Motors———————————————————————————————————	Dec. 27, 1887 Dec. 27, 1887
379,406	McLaughlin, J. F.	Type-writing	Mar. 13, 1888
379,802	McLaughlin, J. F	Motors	Mar. 20, 1888
383,583	McLaughlin, J. F.	Indicators	May 29, 1888
382,997 371,696	McTighe, T. J	Annunciators	May 15, 1888 Oct. 18, 1887
384,860	Meehan, M	Sub-ways	June 19, 1888
366,970	Melbourne, W. A	Circuits and systems	July 19, 1887
378,332	Melbourne, W. A	Keys	Feb. 21, 1888
367,422	Mellett, L. and Prince, J.	Applications, general	Aug. 2, 1887
367,541 384,775	Mengis, M. C.	Locomotion	Aug. 2, 1887 June 19, 1888
376,541	Mergenthaler, O	Applications, tools and machines	Jan. 17, 1888
378,797	Mergenthaler, O	Matrix making	Feb. 28, 1888
378,798	Mergenthaler, O	do	Feb. 28, 1888
366,336 366,337	Merritt, H. W	Insulating material	July 12, 1887
381,941	Meserole, A. V	Batteries, secondary	July 12, 1887 May 1, 1888
367,651	Meston, A. W.	Motors	Aug. 2, 1887
372,231	Meston, A. W	Regulators	Oct. 25, 1887
372,078	Metzger, H	Anti-induction devices	Oct. 25, 1887
383,602 383,677	Metzradt, H. J. von	Lights, filaments and carbons	May 29, 1888
376,007	Metzradt, H. J. von	Batteries, galvanic Lights, arc, gravity feed, frictional	May 29, 1888 Jan. 3, 1888
377,083	Milliken, G. F. and Lytle, H. B	Telegraphy, fire, alarms and extinguishers	Jan. 31, 1888
377,953	Mills, A	Girders and columns	Feb. 14, 1888
371,147	Milroy, P	Railway signals	Oct. 4, 1887
369,608 365,842	Molyneux, B. S	Recorders	Sept. 6, 1887
365,843	Monfort, E. A	Electric cartridges Fire-arms, breech-loading	July 5, 1887 July 5, 1887
372,860	Montanus, G	Regulators	Nov. 8, 1887
380,215	Moore, M. E	Lights, sockets and keys	Mar. 27, 1888
373,088 383,756	Moorehouse, M. A.	Medical and surgical, body-wear	Nov. 15, 1887
383,757	Morris, H. G. and Salom, P. G	Conductors, underground Batteries, secondary	May 29, 1888 May 29, 1888
381,269	Morse, P. C	Cut-outs, mechanical	Apr. 17, 1888
378,456	Moses, O. A	Magneto-electric	Feb. 28, 1888
383,150 381,480	Moses, O. A	Lights, incandescent	May 22, 1888
378,801	Mott, S. D. Muckle, M. R., jr	Meters Conductors, underground	Apr. 17, 1888 Feb. 28, 1888
378,802	Muckle, M. R., jr	do	Feb. 28, 1888
379,408	Muckle, M. R., jr	do	Mar. 13, 1888
381,271	Mueller, E. T	Slates	Apr. 17, 1888
366,599 374,747	Muenchinger, G. A	IncubatorsElectrodes	July 12, 1887
381,636	Müller, M. A	Magneto-electric	Dec. 13, 1887 Apr. 24, 1888
371,965	Munsie, J. F.	Conductors, underground	
333,899	Murphy, E. J. and Floyd, J	Medical and surgical, body-wear	June 5, 1888
378,971 370,885	Neal, L. M	Insulators	
384.384	Neeper, A. M	Telegraphy, fire Lightning-rods	
383,901	Neu, G. S		
372,926	Nevens, F. W.	Apparel, cutting	Nov. 8, 1887
383,536	Newman, E. A	Thermostats	May 29, 1888
375,456 377,634	Newton, E. C.		
374,315	Nier. W.	Railway signals————————————————————————————————————	Dec. 6, 1887
374,129	Noble, C. B.		Nov. 29, 1887
384,212	Nolan, J	Alarms	June 5, 1888
384,586 369,808		Printing, surfaces	
375,766	Noves. J. G	Morse registers	Sept. 13, 1887 Jan. 3, 1888
372,273	Nulty, J. T		Oct. 25, 1887
373,152	Oakes, A	Keys	Nov. 15, 1887
377,046		Magneto-electric	
367,435 365,935	O'Connell, J. J	Lightning-rodsAnnunciators	
377,862	Ochmen, B.		
379,904	Oehrle, A. C	Railways, elevated	Mar. 20, 1888
383,411	Ohmart, E. C.	Lights, are, gravity feed, frictional	May 22, 1888
380,589 384,638	O'Keenan, C. E		Apr. 3, 1888 June 19, 1888
932,000	Oliver, R	Magneto-electric	o une 10, 1000

No.	NAME.	CLASS.	DATE,
372,168	Oliver, W	Āpplications, general	Oct. 25, 1887
382,183	Omholt, J	Reducing and separating aluminium	May 1, 1888
374,198	Orcutt, E. L	Railway signals	
374,199	Orcutt, E. L	Connectors	
378,517 378,552	Orcutt, E. L.	Relays and sounders	
379,598	Otto, G	Connectors	
368,546	Owen, A	Medical and surgical, body-wear	Aug. 16, 1887
383,484	Packard, J. W.	Lights, filaments and carbons	May 29, 1888
385,001	Packard, J. W.	Rheostats	
380,922	Packer, R	Batteries, secondary	Apr. 10, 1888
366,021 383,485	Paine, H. M.——————————————————————————————————	Recorders	July 5, 1887 May 29, 1888
384,271	Parcelle, A. L	Clocks, electric	
379,977	Parke, J. Y	Igniting devices	Mar. 27, 1888
366,603	Parker, F. H	Towers	
381,576	Parrish, M. W	Aununciators	
379,180 375,649	Partz, A. F. W.—————————————————————————————————		
374,621	Patten, F. J.		Dec. 13, 1887
369,810	Patten, F. J	Annunciators	
369,121	Patterson, W. R.		Aug. 30, 1887
369,122	Patterson, W. R.	Couductors, anti-inductive	Aug. 30, 1887
369,259 378,175	Patterson, W. R	Conductors	Aug. 30, 1887 Feb. 21, 1888
382,726	Patterson, W. R.	Conductors, underground	May 15, 1888
382,767	Patterson, W. R.	Conductors, lead-covered	May 15, 1888
382,768	Patterson, W. R.	do	May 15, 1888
382,829		Conductors, underground	May 15, 1888
372.865 380,765		Railway signals	Nov. 8, 1887 Apr. 10, 1888
377,210		Batteries, galvanic	
385,067	Perkins, C. G.	Cut-outs, thermal	June 26, 1888
380,766	Perkins, C. G. and Tregoning, J	do	
367,841		Igniting devices	Aug. 9, 1887
368,608 380,925	Pholog G W	Batteries, secondary	Aug. 23, 1887 Apr. 10, 1888
366,184		Drills	
369,880	Phelps, L. J.	Telegraphy, railway-car	Sept. 13, 1887
380,295	Phillips, W. A.		
371,356 378,107	Pierce, W. L. LPike, D. E		
369,655	Place, E		
378,616	Poland, L. N. P	Lights, arc, gravity feed, gear	Feb. 28, 1888
333,320	Poland, L. N. P		
383,655	Pond, C. H		
372,637 367,925	Pond, F. S.——————————————————————————————————		
366,606		Lights, sockets and keys	
374,495	Pope, W. R	Applications, general	Dec. 6, 1887
380,817	Prichard, F. E	Valve-controllers	Apr. 10, 1888
381,279 381,167		IndicatorsReflectors	
369,813	Rader, G	Conductors, underground	Sept. 13, 1887
380,594	Randall, C. A.	Printing, hand stamps	Apr. 3, 1888
380,595	Randall, C. A.	do	Apr. 3, 1888
367,662		Time-checks	
367,663 384,472	Reams A J	Clocks, electricdodo	Aug. 2, 1887
378,375	Rechniewski, W. C	Magneto-electric	Feb. 21, 1888
371,358	Reckenzaun, A	Batteries, secondary	Oct. 11, 1887
385,068	Reckenzaun, A	Magneto-electric	June 26, 1888
385,200	Reckenzaun, A	Batteries, secondary	June 26, 1888
371,626 367,548		Alarms	
375,834		Drills	
382,110	Reilly, C. P	Lights, sockets and kevs	May 1, 1888
374,850	Reiniuann, C. F'	Lights, incandescent	Dec. 13, 1887
381,953 375,952	Regus I. F	Medical and surgical, body-wear	May 1, 1888
374,374	Reynolds, W. H	Valve-controllers	Dec. 6, 1887
372,330	Rice, E. W., jr	Systems of distribution	Nov. 1, 1887
381,420	Rice, E. W., jr	do	Apr. 17, 1888
383,913 379,284		Rheostats	
374,322	Ricketson, J. C	Magneto-electric	Mar. 13, 1888 Dec. 6, 1887
370,282	Ries, E. E.	Heaters	Sept. 20, 1887

No.	Name.	Class.	DATE.
370,283	Ries, E. E	Locomotion	Sept. 20, 1887
379,815	Ries, E. E		Mar. 20, 1888
379,909		do	Mar. 20, 1888
380,138	Ries, E. E.		Mar. 27, 1888
381,421		Magneto-electric	Apr. 17, 1888
381,815 381,816		do	Apr. 24, 1888 Apr. 24, 1888
381,817		do	Apr. 24, 1888
381,818		do	Apr 24, 1888
381,819	Ries, E. E.		Apr. 24, 1888
379,816	Ries, E. E. and Henderson, A. H	Locomotion	Mar. 20, 1888
383,770	Ries, E. E. and Henderson, A. H.	do	May 29, 1888
381,422	Riker, A. L	Batteries, galvanic	Apr. 17, 1888
384,077 $382,272$	Riker, A. L Robb, J. T	Magneto-electric Lights, systems and appliances	June 5, 1888 May 1, 1888
375,835	Robinson, E. W., O'Brien, C. H., and Breen, H. M.	Electrodes	Jan. 3, 1888
375,569	Rogers, C. D.	Telegraphy, fire	Dec. 27, 1887
382,439	Roome, H. C	Alarms, burglar	May 8, 1888
375,001	Roosevelt, A	Valve-controllers	Dec. 20, 1887
374,088	Roosevelt, H. L.——————————————————————————————————	Organ-actions, pneumatic Medical and surgical, body-wear	Nov. 29, 1887
371,521 367,164	Rnger, H. K	Insulators	Oet. 11, 1887 July 26, 1887
382,056	Ruggles, D	Signals, nautical	May 1, 1888
367,931	Runels, C		Aug. 9, 1887
382,734	Russ, N. W	Applications, general	May 15, 1888
378,464	Russell, L		Feb. 28, 1888
383,140	Russell, S	Batteries, secondary	May 22, 1888
366,190	Safford, A. G Saunders, A. D	Telephones, magnetic	July 5, 1887
383,771 372,334	Sawyer, F. A	Dumb waiters Lights, systems and appliances	May 29, 1888 Nov. 1, 1887
380,053	Sawyer, W. H	Conductors	Mar. 27, 1888
380,054	Sawyer, W. H	do	Mar. 27, 1888
366,513	Scales, W. S.	Clocks, electric	July 12, 1887
379,820	Schanschieff, A	Salines	Mar. 20, 1888
379,911	Schanschieff, A	Batteries, galvanic	
377,118	Schefbauer, R	Conductors	
367,241 380.824	Schleicher, A. W	Gearing, frictional	
370,894	Schlesinger, W. M	Car-brakes	
377,215	Schlesinger, W. M	Locomotion	Jan. 31, 1888
378,980	Schlesinger, W. M	do	
381,585	Schlesinger, W. M	do	
366,347	Schmid, A	Induction-coils	
383,657	Schmid, A	Magneto-electric	May 29, 1888
383,658	Schmid, A. and Byllesby, H. M.	do	
383,659 381,725	Schneider, J	Magnetic locks and bolts	
381,852	Schuchman, A	Alarms, burglar	
373,691	Schwalm, H. F. D	Decomposing fats	Nov. 22, 1887
367,670	Scribner, C. E	Telephones, switch-boards	Aug. 2, 1887
373,910	Scribner, C. E	Telephones, calls	Nov. 29, 1887
373,948	Scribner, C. E	Magneto-electrie	Nov. 29, 1887
374,907	Scribner, C. E	Telephones, systems	Dec. 13, 1887
375,685 377,441	Scribner C E	do	Feb. 7 1888
381,430	Scribner, C. E	do	Apr. 17, 1888
381,431	Scribner, C. E	do	Apr. 17, 1888
383,013	Scribner, C. E	do	May 15, 1888
383,014	Scribner, C. E	do	May 15, 1888
383,015	Scribner, C. E	Annunciators	May 15, 1888
383,016 383,017		Magneto-electric, hand machines	
383,018	Scribner, C. E	Telephones, systemsdodo	May 15, 1888
383,495	Scribner, C. E		May 29, 1888
384,088	Scribner, C. E	Annunciators	June 5, 1888
384,476	Scribner, C. E	Telegraphy, fire	June 12, 1888
384,477	Scribner, C. E	Telephones, systems	June 12, 1888
384,644	Scribner, C. E	do	June 19, 1888
385,205	Scribner, C. E	Lighta flamonts and anthons	
382,560 367,730	Seel, C.	Lights, filaments and carbons Telephones, switch-boards	Aug. 2, 1887
369,034	Seely, J. A.	Batteries, galvanic	Aug. 30, 1887
366,034	Seiler, C	do	July 5, 1887
379,822	Seiler, C	Heaters	Mar. 20, 1888
370,898	Selden, C	Circuits and systems	Oet. 4, 1887
371,980	Selden, C	Telegraphy, automatic	Oct. 25, 1887

No.	Name.	CLASS.	DATE.
375,898	Selden, C	Telegraphy, dnplex	Jan. 3, 1888
378,181	Selden, C	do	Feb. 21, 1888
382,195	Selden, C.	Telegraphy, reed	
377,642 378,115	Sellon, J. S.	Batteries, secondary Batteries, secondary, applications	
378,527	Sellon, J. S	do	Feb. 28, 1888
382,112	Sellon, J. S	Batteries, secondary	May 1, 1888
383,193	Sellon, J. S	do	May 22, 1888
384,289 373,859	Sellon, J. S.——————————————————————————————————	Batteries, secondary, applicationsRegulators	
367,451	Serson, J.	Batteries, galvanic	Aug. 2, 1887
374,631	Sersou, J	do	Dec. 13, 1887
375,007	Serson, J	Tiple in any Japane	/
368,857 384,594	Settle, MSeymour, H. A	Lights, incandescent Locomotion	Aug. 23, 1887 June 12, 1888
367,323	Shaffer, C. H	Telegraphy, fire, alarms and extinguishers	July 26, 1887
366,349	Shallenberger, O. B	Regulators	
366,350	Shallenberger, O. B		July 12, 1887
367,934 372,934	Shallenberger, O. B Shallenberger, O. B	Magneto-electricdodo	Aug. 9, 1887 Nov. 8, 1887
372,935	Shallenberger, O. B		Nov. 8, 1887
372,936	Shallenberger, O. B		Nov. 8, 1887
373,029	Shallenberger, O. B		Nov. 8, 1887
380,942 380,943	Shallenberger, O. B		Apr. 10, 1888
380,944	Shallenberger, O. B	do	Apr. 10, 1888 Apr. 10, 1888
380,945	Shallenberger, O. B		Apr. 10, 1888
383,661	Shallenberger, O. B	Systems of distribution	May 29, 1888
383,662	Shallenberger, O. B		May 29, 1888
383,663 383,664	Shallenberger, O. B		May 29, 1888 May 29, 1888
383,665	Shallenberger, O. B	Galvanometers	May 29, 1888
383,666	Shallenberger, O. B	do	May 29, 1888
383,667	Shallenberger, O. B	do	May 29, 1888
383,668 383,669	Shallenberger, O. B	do	May 29, 1888 May 29, 1888
383,670	Shallenberger, O. B	do	May 29, 1888
383,671	Shallenberger, O. B	do	May 29, 1888
383,672		do	May 29, 1888
380,946 380,947	Shallenberger, O. B. and Byllesby, H. M.——Shallenberger, O. B. and Byllesby, H. M.——	Systems of distributionBatteries, galvanie	Apr. 10, 1888 Apr. 10, 1888
376,212	Shanck, H. K	Explosives	Jan. 10, 1888
365,868	Shaver, G. F	Telephones, mechanical	July 5, 1887
367,069	Shaw, E. S		July 26, 1887
368,692 368,858	Sheehy, R. J Sheehy, R. J		Aug. 23, 1887
368,859	Sheehy, R. J	do	
370,357	Sheehy, R. J	do	Sept. 20, 1887
370,978	Sheehy, R. J	do	Oct. 4, 1887
379,991	Shepard, C. H	Ships, sub-marine and torpedo Construction	Mar. 27, 1888
372,494 369,561		Batteries, secondary	
379,081	Short, S. H	Locomotion	Mar. 6, 1888
379,082	Short, S. H	Traction, underground	Mar. 6, 1888
381,650 381,856		Locomotion	
385,145	Siebel, J. E	MotorsIncrustation	June 26, 1888
366,263	Silliman, R. F.	Insulating material	July 12, 1887
378,021	Silliman, R. F	Conductors, underground	Feb. 14, 1888
383,775	Sintz, C.	Explosives	May 29, 1888
370,423 370,424	Skinner, J. J	Lights, are, gravity feeddo	Sept. 27, 1887
376,920	Skrivan, O. and Dvorak, F	Time-checks	Jan. 24, 1888
374,711	Slater, H. B	Magneto-electrie	Dec. 13, 1887
380,702	Slater, H. B		Apr. 10, 1888
375,014 382,738	Sloane, G. H	Lights, systems and applianees Batteries, galvanic	May 15, 1888
378,983	Smith, A. A.		Mar. 6, 1888
378,339	Smith, A. C	Show boxes and cards	Feb. 21, 1888
371,524	Smith, E	Induction-coils	Oct. 11, 1887
366,695 383,377	Smith, G. G.	Telegraphy, quadruplex Telegraphy, fire, alarms and extinguishers	May 22 1888
383,918		Separators	June 5, 1888
384,645	Smith, M. H	do	June 19, 1888
377,962		Explosives	
377,408 377,409		Embroideringdo	
0.1,400	,,		,, 2200

No.	Name.	CLASS.	DATE.
377,413	Smith, R. T	Applications, tools and machines	Feb. 7, 1888
382,778	Smith, W. F	Conductors, underground	May 15, 1888
375,390	Sneathen, J. B., Michaels, A., and Michaels, M. A.	Drills	Dec. 27, 1887
372,940	Soden, F. H. and Goehst, H.	Lights, systems and appliances	Nov. 8, 1887
380,060	Speed, F. M	Locomotion	Mar. 27, 1888
378.737 378,738	Spencer, T	Systems of distribution	Feb. 28, 1888 Feb. 28, 1888
369,036	Sperry, E. A	Lightning-arresters	Aug. 30, 1887
385,016	Spiegel, W. G.	Signals, nautical Lights, sockets and keys	
384,478 383,919	Splitdorf, H.	Conductors	
372.822	Sprague, F. J.	Magneto-electric	Nov. 8, 1887
372,823 372,824	Sprague, F. J.	Applications, general	
380,144	Sprague, F. J	Magneto-electric	Mar. 27, 1888
385,211	Sprague, F. J.		
366,267 366,268	Stanley, W., jr	Regulators	
366,523	Stanley, W., jr	Systems of distribution	July 12, 1887
372,942	Stanley, W., jr	Lights, systems and appliances	Nov. 8, 1887
372,943 372,944	Stanley, W., jr	do	
372,945	Stanley, W., jr	Magneto-electric	
374,910 383,832	Stanley, W., jrStanley, W., jr	Motors	
385,147	Starr, E. E.	Batteries, galvanic	June 26, 1888
378,629	Stecher, M	Batteries, secondary	
381,653 375,392	Steel, J	Conductors, underground	Apr. 24, 1888 Dec. 27, 1887
373,102	Sternberg, G. M	Bells	Nov. 15, 1887
373,103 373,104	Sternberg, G. M.	Thermostatsdo	
376,116	Stevens, A. D.	Batteries, secondary, applications	Jan. 10, 1888
379,339 354,875	Stevens, G. M	Telegraphy, firedodo	
382,332	Stirling, C. C	Cut-outs, mechanical	
382,333	Stirling, C. C	do	
382,625 380,409	Stitzel, F. and Weinedel, C.		
385,214	Stitzel, F. and Weinedel, C	Relays and sounders	June 26, 1888
385,215 377,538	Stitzel, F. and Weinedel, C.	Connectors	June 26, 1888 Feb. 7, 1888
377,539	Stocker, W. F	Bells	Feb. 7, 1888
369.889 369,568	Stoddard, N. F.		Sept. 13, 1887 Sept. 6, 1887
372,046	Stuart, G	Electric cartridges	Oct. 25, 1887
374,640	Sundström, K. J		Dec. 13, 1887
385,020 367,768		Systems of distributionConductors, underground	June 26, 1888 Aug. 2, 1887
380,829	Swarts, H. J.	Connectors	Apr. 10, 1888
372,579 382,444		Alarms, burglar	Nov. 1, 1887 May 8, 1888
384,796	Tag, W. and Smith, S. C.	Igniting devices	June 19, 1888
375,579 380,535		Phonographsdo	
379,832		Knitting and netting, stopping	
374,013	Tarbox, J. E	Balances	Nov. 29, 1887
366,898 381,862	Tatham, J Taylor, G. R. and Heckert, W		
373,759	Taylor, G. W	Connectors	Nov. 22, 1887
377,872 378,943	Ten Broeck, T. R.		Feb. 14, 1888 Mar. 6, 1888
381,968	Tesla, N	Transmission of power	May 1, 1888
381,969	Tesla, N	do	May 1, 1888
381,970 382,279	Tesla, N		May 1, 1888 May 1, 1888
382,280	Tesla, N	do	May 1, 1888
382,281 382,282	Tesla, N		
382,845	Tesla, N	Magneto-electric	May 15, 1888
381,440 382.781	Thaxter, G. E	Igniting devices	Apr. 17, 1888
384,404	Thomas, J. D.		June 12, 1888
366,352	Thompson, E. P.	Lights, incandescent	July 12, 1887
366,353 369,267	Thompson, E. P	Lights, filameuts and carbons	Aug. 30, 1887
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No.	NAME.	CLASS.	DATE.
369,664	Thompson, E. P	Lights, filaments and carbons	Sept. 6, 1887
369,665	Thompson, E. P	Lights, systems and appliances	Sept. 6, 1887
369,666	Thompson, E. P	Lights, filaments and carbons	Sept. 6, 1887
370,992 370,993	Thompson, E. P	Lights, incandescent	Oct. 4, 1887 Oct. 4, 1887
370,994	Thompson, E. P	do	Oct. 4, 1887
370,995	Thompson, E. P Thompson, E. P	Lights, filaments and carbons	Oct. 4, 1887
370,996 370,997	Thompson, E. P	Lights, incaudescent	Oct. 4, 1887 Oct. 4, 1887
370,998	Thompson, E. P	Lights, filaments and carbons	Oct. 4, 1887
370,999	Thompson, E. P	Lights, incandescent	Oct. 4, 1887
371,000 371,001	Thompson, E. P	Lights, filaments and carbonsdodo-	Oct. 4, 1887 Oct. 4, 1887
371,002	Thompson, E. P	do	Oct. 4, 1887
371,003	Thompson, E. P	Lights, systems and appliances	Oct. 4, 1887
382,846 383,675	Thompson, E. P	Lights, incandescentdo	May 15, 1888
383,676	Thompson, E. P	do	May 29, 1888
371,640	Thompson, E. W.	Recorders	Oct. 18, 1887
367,731	Thoms, W. A.	Electro-deposition	Aug. 2, 1887
367,469 367,470	Thomson, E	Systems of distribution Regulators	Aug. 2, 1887
367,471		Magneto-electric	
367,866		do	
369,754 370,573	Thomson, E	Regulatorsdo	Sept. 13, 1887
372,501	Thomson, E	Systems of distribution	Nov. 1, 1887
373,108	Thomson, E	Motors	Nov. 15, 1887
375,022 375,784		Heatersdo	
376,120	Thomson, E	Regulators	Jan. 10, 1888
377,217	Thomson, E	Motors	Jan. 31, 1888
381,441 381,442		Metersdo	
381,443		do	
382,335	Thomson, E	Magneto-electric	May 8, 1888
382,336		Regulators	
385,022 370,572	Thomson, E. and Rice, E. W., jr-		
379,255	Thone, F.	Lights, sockets and keys	Mar. 13, 1888
376,615	Thurber, W. E. and McConnell, J.		Jan. 17, 1888
373,160 $383,502$	Tiffany, J. C. and DeMicr, J. R.——————————————————————————————————		
370,831	Tirrell, J. P.	Bells	Oct. 4, 1887
373,207	Tirrell, J. P.		
374,017 376,171	Tirrell, J. P	Cut-outs, electro-magnetic	
377,916		Bells	
382,741	Tisdale, C. D.		
379,344 368,628	Tittle, D. J., jr	Miscellaneous	Mar. 13, 1888
380,301	Tompkins, W. M.	Drop-lights and hangers	Mar. 27, 1888
377,218	Totman, G. W. and P. C	Medical and surgical, body-wear	Jan. 31, 1888
385,023 377,788	Traver E. P. and Kugler G. H.	Cut-outs, mechanical Telephones, systems	June 26, 1888 Feb. 14, 1888
382,914	Tregoning, J	Galvanometers	May 15, 1888
368,796	Trouvé, G.	Steering and propulsion	Aug. 23, 1887
367,474 372,720	Trumau, E	Metallic vessels, spouted Photography, processes	Aug. 2, 1887
376,121		Magnetic locks and bolts	
369,372	Turner, T. G	Conductors, lead-covered	Sept. 6, 1887
379,037 377,340	Urban, O. and Wightman, M. J.	Magneto-electric Batterics, galvanic	Mar. 6, 1888
376,562	Van Buren, R. and Powers, J. J.	Conductors, underground	Jan. 17, 1888
376,617	Vauce, S. B. H	Lights, systems and appliances	Jan. 17, 1888
383,158	Vance, S. B. H	do	May 22, 1888
383,332 367,475	Van Depoele, C. J.	Locomotion	Aug. 2, 1888
367,685	Vau Depoele, C. J.	Car-brakes	Aug. 2, 1887
380,610	Van Gestel, J. T	Conductors, lead-covered	Apr. 3, 1888
374,883 370,575	Van Rysselberghe, F	Motors———————————————————————————————————	Sept 27 1887
370,576	Van Rysselberghe, F	Regulators Telcgraphy, reed	Sept. 27, 1887
370,577	Van Rysselberghe, F	Clocks, electric	Sept. 27, 1887
383,786 381,446	Von der Kammer, J	Cut-outs, mechanical	May 29, 1888
371,720	Waddell, M	Galvanometers	Oct. 18, 1887

No.	Name.	CLASS.	DATE.
374,381	Waddell, M	Systems of distribution	Dec. 6, 1887
374,329	Waite, H. E	Batteries, galvanic	Dec. 6, 1887
371,111	Wallace, T	Conductors, underground	Oct. 4, 1887
378.121	Walter, H	Batteries, galvauic	Feb. 21, 1888
378,122	Walter, H. and Marsh, W. E. H	do	Feb. 21, 1888
373,034 371,808	Walter, H. E	Magneto-electric	Nov. 8, 1887
378,560	Waring, R. S	Connectors	Oct. 18, 1887 Feb. 28, 1888
378,561	Waring, R. S.	do	Feb. 28, 1888
378,029	Warner, E. P.	Galvanometers	Feb. 14, 1888
378,030	Warner, E. P	Telephones, systems	Feb. 14, 1888
366,613	Waterhouse, A. G	Lights, arc, gravity feed, frictional	July 12, 1887
366,614	Waterhouse, A. G.	Phaestate	July 12, 1887
375,403 369,376	Waterhouse, A. G	Rheostats	Dec. 27, 1887 Sept. 6, 1887
369,377	Watkins, F. C	do	Sept. 6, 1887
369,378	Watkins, F. C	do	Sept. 6, 1887
369,379	Watkins, F. C	do	Sept. 6, 1887
370,293	Watkins, F. C	Telephones, systems	Sept. 20, 1887
371,531	Watson, J. E	Relays and sounders	Oct. 11, 1887
372,245 383,843	Watson, J. E	Telegraphy, automatic	Oct. 25, 1887
384,222	Watson, J. E	Relays and sounders	May 29, 1888 June 5, 1888
376,567	Weems, D. G	Locomotion	Jan. 17, 1888
381,866	Weil, L	Valve-controllers	Apr. 24, 1888
375,238	Welch, M. M.	Circuit-closers	Dec. 20, 1887
381,303	Welden, R. H	Telephones, switch-boards	Apr. 17, 1888
373,211	Wenström, J	Separators	Nov. 15, 1887
381,451 370,434	Wenström, J ———————————————————————————————————	Magneto-electricSystems of distribution	Apr. 17, 1888 Sept. 27, 1887
366,361	Westinghouse, G., jr	Conductors	
366,362	Westinghouse, G., jr	Induction-coils	
366,544	Westinghouse, G., jr	do	
373,035	Westinghouse, G., jr	Systems of distribution	
373,036	Westinghouse, G., jr-	do	
373,037 383,678	Westinghouse, G., jr	Meters	
383,679	Westinghouse, G., jr	Magneto-electric	
373,038	Westinghouse, G., jr., Byllesby, H. M., Sballenberger, O. B., and Schmid, A.	Inductiou-coils	Nov. 8, 1887
374,858	Westinghouse, G., jr., Byllesby, H. M., Shallenberger, O. B., Schmid, A., and Hartley, B.	Magneto-electric	Dec. 13, 1887
383,680 381,304	Westinghouse, G., jr., and Lange, P	MetersRheostats	May 29, 1888 Apr. 17, 1888
381,305	Weston, E	rineostats	Apr. 17, 1888
381,736	Weston, E	Galvanometers	Apr. 24, 1888
378,124	Wetzler, J. and S	Bells	Feb. 21, 1888
383,605	Wheeler, A. D.	Telegraphy, fire, alarms and extinguishers	May 29, 1888
374,324	Wheeler, M	Lights, incandescent	Dec. 6, 1887
368,987 370,000	Wheeler, S. S.	Motors	Aug. 30, 1887
385,028	Wheelock, B. J	Batteries, galvanic	June 26, 1888
380,469	Whipple, S. A.	Locomotion	
377,505	White, L. S	Igniting devices	Feb. 7, 1888
384,806	White, W. W.	Electro deposition	
374,225	Whitefield, G. W	Dental instruments	Dec. 6, 1887
276.560			
376,569 1 371,869	Whitehead, S. B.	Relays and sounders	Oct. 18 1887
371,869	Whitney, É. R	Spring scales	Oct. 18, 1887
	Whitney, E. R	Spring scales	Oct. 18, 1887 Jan. 3, 1888
371,869 376,018 377,591 374,439	Whitney, E. R	Spring scales	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887
371,869 376,018 377,591 374,439 383,263	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P.	Spriug scales Induction-coils Grain meters Telephones, details Batterics, galvanic	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888
371,869 376,018 377,591 374,439 383,263 367,734	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888
371,869 376,018 377,591 374,439 383,263 367,734 373,761	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Lights, arc, gravity feed	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,031	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887 July 26, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,031 367,082 367,565 378,818	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Rasmussen, E.	Spriug scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear Lights, arc, gravity feed, gear	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887 July 26, 1887 Aug. 2, 1887 Feb. 28, 1888
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,031 367,082 367,565 378,818 367,080	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Urban, O.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear Magneto-electric	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887 July 26, 1887 Aug. 2, 1887 Feb. 28, 1888 July 26, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,081 367,082 367,565 378,818 367,080 372,734	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wightman, M. J. and Lemp, H. Wightman, M. J. and Urban, O. Wilder, C. H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear Magneto-electric Batteries, galvanic	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1887 July 26, 1887 Aug. 2, 1887 Feb. 28, 1888 July 26, 1887 Nov. 8, 1887 Nov. 8, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,081 367,082 367,565 378,818 367,080 372,734 375,034	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Rasmussen, E. Wightman, M. J. and Urban, O. Wilder, C. H. Wilder, C. H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity fced Cut-outs, mechanical Lights, arc, gravity feed, gear ——do Magneto-electric Batteries, galvanic ——do	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887 Aug. 2, 1887 Aug. 2, 1887 Feb. 28, 1888 July 26, 1887 Oct. 28, 1888 July 26, 1887 Dec. 20, 1887
371,869 376,018 377,591 374,439 383,263 367,734 373,761 373,481 367,082 367,565 378,818 367,080 372,734 375,034 376,019	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Rasmussen, E. Wightman, M. J. and Urban, O. Wilder, C. H. Wilder, C. H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear ——do Magneto-electric Batteries, galvanic ——do Minor plastics, miscellaneous	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1888 July 26, 1887 July 26, 1887 Feb. 28, 1888 July 26, 1887 Feb. 28, 1888 July 26, 1887 Nov. 8, 1887 Dec. 20, 1887 Jan. 3, 1888
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,081 367,082 367,565 378,818 367,080 372,734 375,034	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Rasmussen, E. Wightman, M. J. and Urban, O. Wilder, C. H. Wilder, C. H.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear ————————————————————————————————————	Oct. 18, 1887 Jan. 3, 1888 Feb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 Feb. 28, 1887 July 26, 1887 Aug. 2, 1887 Feb. 28, 1888 July 26, 1887 Nov. 8, 1887 Dec. 20, 1887 Jan. 3, 1888 May 29, 1888 Nov. 22, 1888
371,869 376,018 377,591 374,439 383,263 367,734 373,761 378,484 367,082 367,565 378,818 367,080 372,734 375,034 375,034 376,019 383,548	Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, E. R. Whitney, R. W. and Pultz, F. Whittier, T. P. Widdicombe, R. H. Wiese, G. A. Wiest, J. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Lemp, H. Wightman, M. J. and Rasmussen, E. Wightman, M. J. and Urban, O. Wilder, C. H. Wilder, C. H. Wilder, C. H. Wilder, C. H. Wilder, C. J. Wilkes, G.	Spring scales Induction-coils Grain meters Telephones, details Batterics, galvanic Conductors Lights, arc, gravity feed, gear Batteries, galvanic Lights, arc, gravity feed Cut-outs, mechanical Lights, arc, gravity feed, gear ——do ——do ——Magneto-electric Batteries, galvanic ——do ——Minor plastics, miscellaneous Batteries, galvanic ——Telegraphy, printing	Oct. 18, 1887 Jan. 3, 1888 Teb. 7, 1888 Dec. 6, 1887 May 22, 1888 Aug. 2, 1887 Nov. 22, 1887 July 26, 1887 Aug. 2, 1887 July 26, 1887 Aug. 2, 1887 Feb. 28, 1888 July 26, 1887 Nov. 8, 1887 Dec. 20, 1887 Dec. 20, 1887 May 29, 1888

No.	Name.	Class.	DATE.
07.0.047	Williams I	Medical and surgical, body-wear	Nov. 1, 1887
- 372,647	Williams, J		
372,441			Nov. 1, 1887
366,058	Williams, R. E. and Hammer, T. G	Medical and surgical, body-wear	July 5, 1887
384,810	Williams, T. D. and Lucock, J. S.	Railway signals	June 19, 1888
384,811	Williams, T. D. and Lucock, J. S.	do	June 19, 1888
369,144	Williamson, J. J.	Wire	Aug. 30, 1887
380,842	Williamson, J. R. and Hickies, W. W		Apr. 10, 1888
381,738	Willis, J. B		Apr. 24, 1888
374,103	Wilson, D		Nov. 29, 1887
380,778	Wilson, J. C		Apr. 10, 1888
380,779	Wilson, J. C		Apr. 10, 1888
380,780	Wilson, J. C		Apr. 10, 1888
378,913	Wing, L. J		Mar. 6, 1888
374,028	Woehrle, A. C		Nov. 29, 1887
381,314	Wood, F. B		Apr. 17, 1888
383,933	Wood, J. J.	Cut-outs, mechanical	June 5, 1888
384,815	Wood, J. J	Lights, sockets and keys	June 19, 1888
384,816	Wood, J. J.	Magneto-electric	June 19, 1888
384,817	Wood, J. J.	Lights, arc, gravity feed, gear	June 19, 1888
376,973	Wood, P. W. and J. B.	Telephones, calls	Jan. 31, 1888
369,577	Wood, W. B	Telegraphy, printing	Sept. 6, 1887
366,192	Woods, G. T.	Relays and sounders	July 5, 1887
368,265	Woods, G. T		Aug. 16, 1887
371,241	Woods, G. T.	Telephones, electric	Oct. 11, 1887
371,655	Woods, G. T.		Oct. 18, 1887
373,383	Woods, G. T		Nov. 15, 1887
373,915	Woods, G. T		Nov. 29, 1887
383,844	Woods, G. T		May 29, 1888
385,034	Woods, G. T.		June 26, 1888
379,551		Batteries, galvanic	Mar. 13, 1888
379,552	Woodward, H		Mar. 13, 1888
369,672		Annunciators	
369,219		Batterics, thermal	
379,144	Wright, C. H		
384,302	Wright, J.		
381,048	Wynne, F		
370,439	Yeakle, J. B. and Steuart, A		
380,010	Young, C. S. and Painter, G. E	Annunciators	
381,896	Young, J.		
382,788	Young, J	Telegraphy, fire, alarms and extinguishers	Mov 15 1000
384,660	Zalinski, E. L	Primers	
384,661	Zalinski, E. L		
384,662	Zalinski, E. L	Shell fuses	
384,663		do	
	Zalinski, E. L	Shells	
384,664	Zalinski, E. L	Shell fuses	
366,289	Zimmerman, W. P	Conductors	
375,910	Zipcrnowsky, K. and Deri, M	Regulators	Jan. 3, 1888

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